

fig1

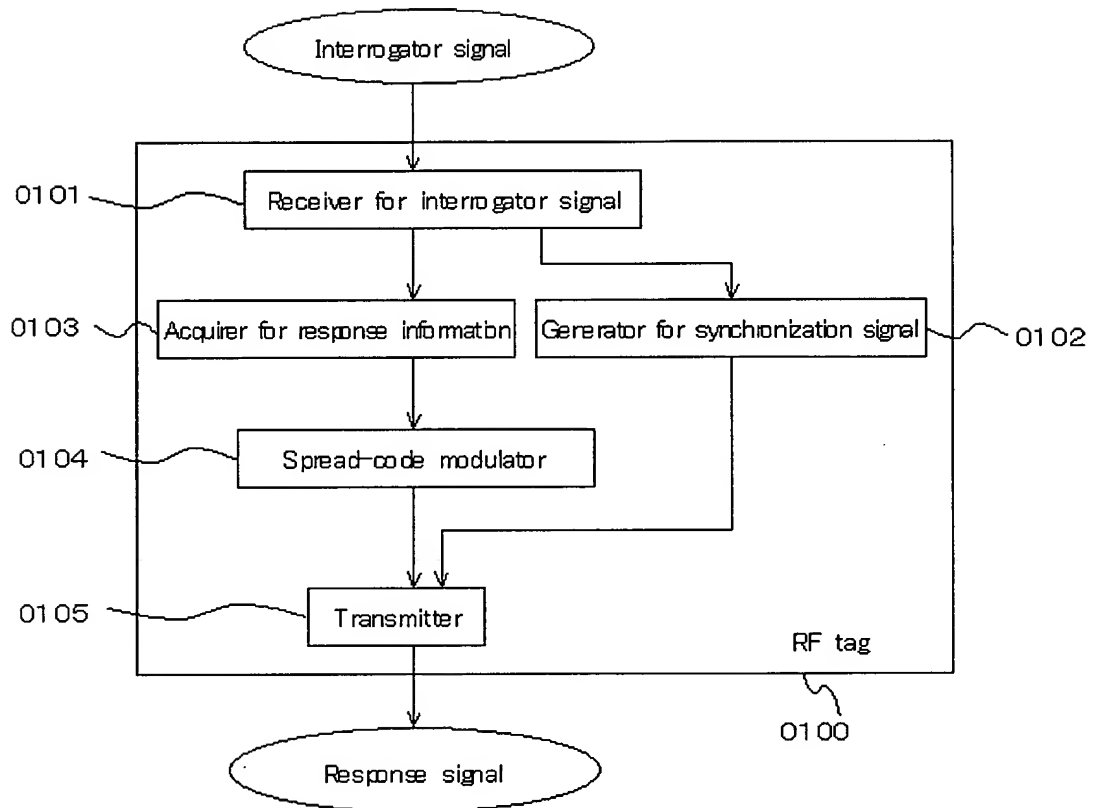


fig2

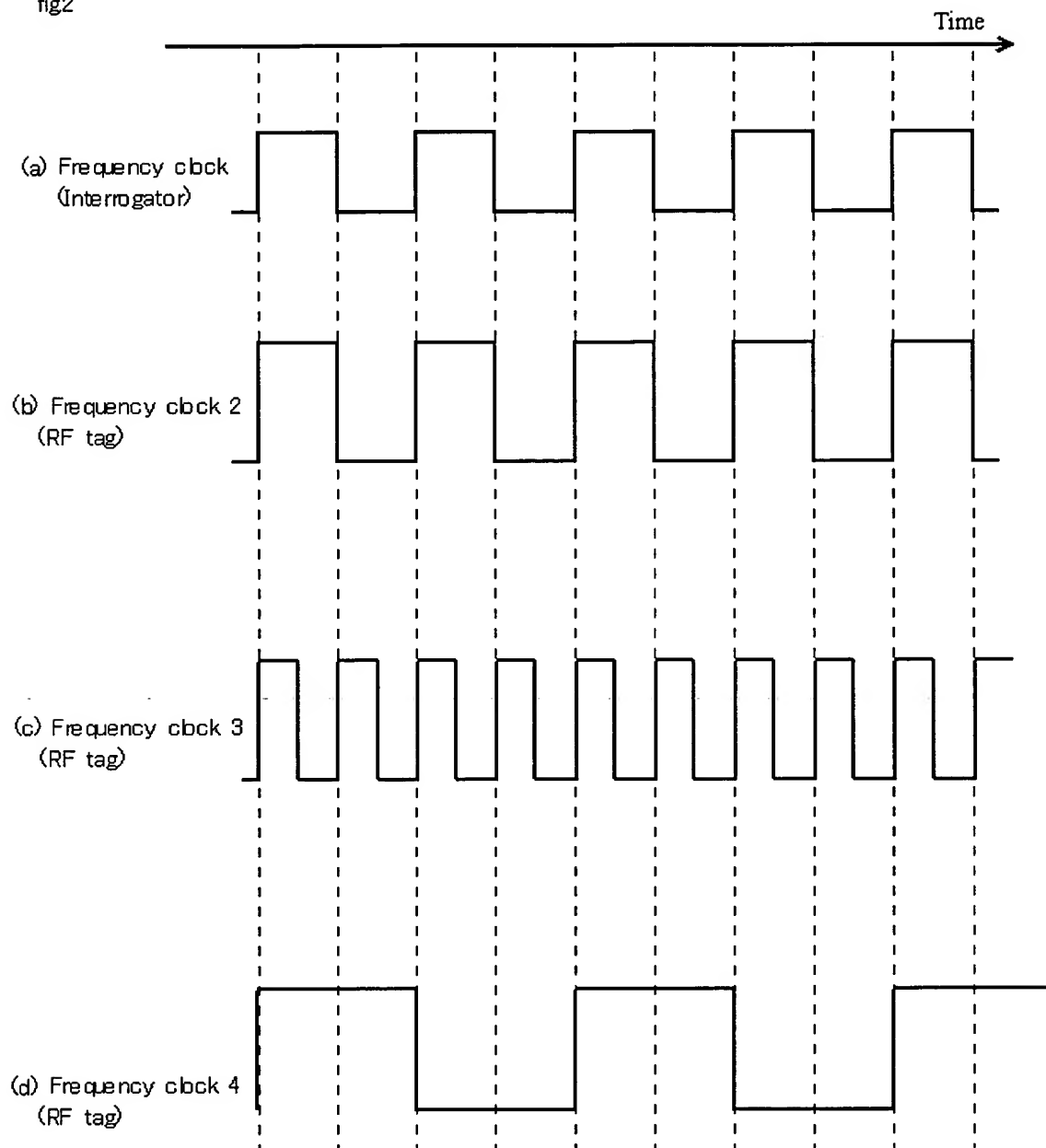


fig3

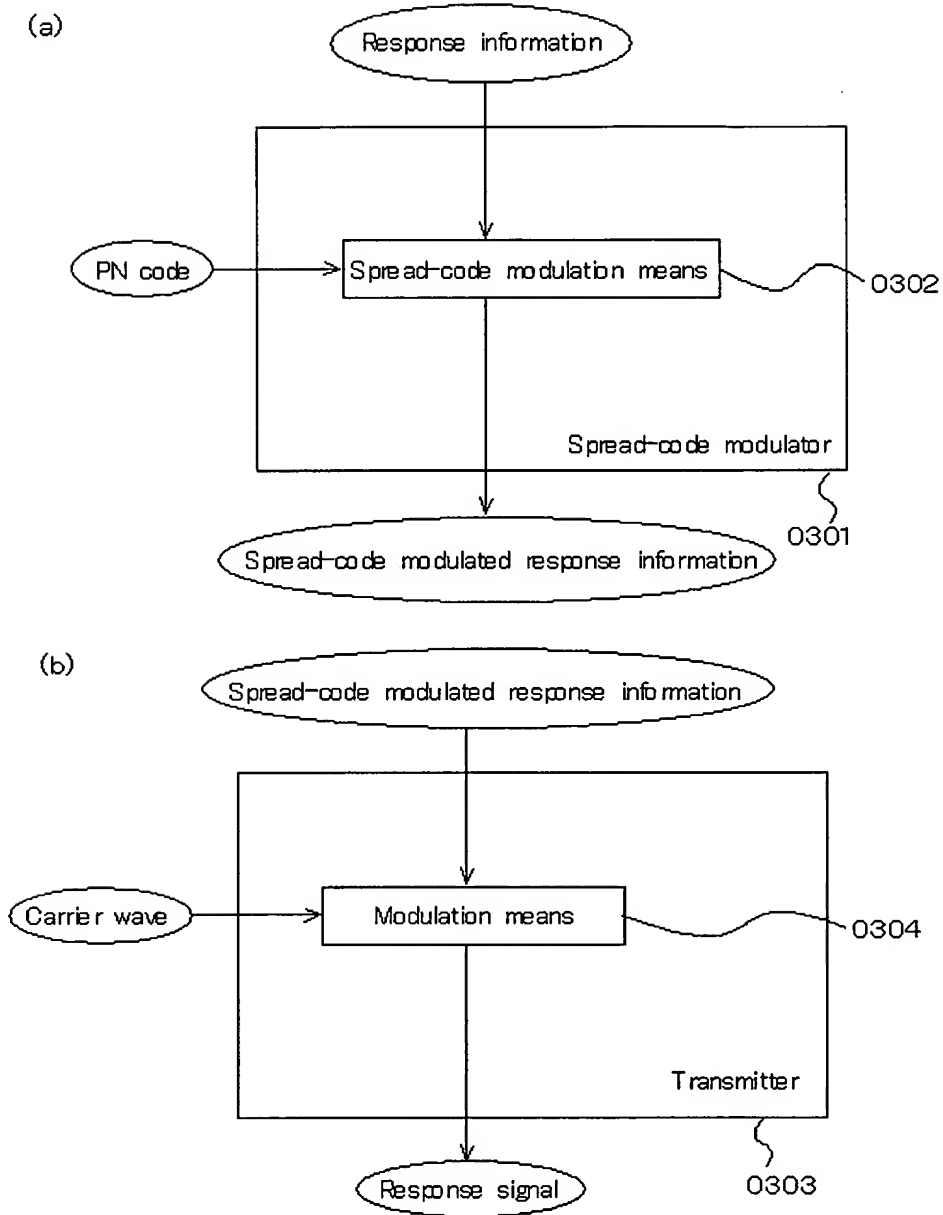


fig4

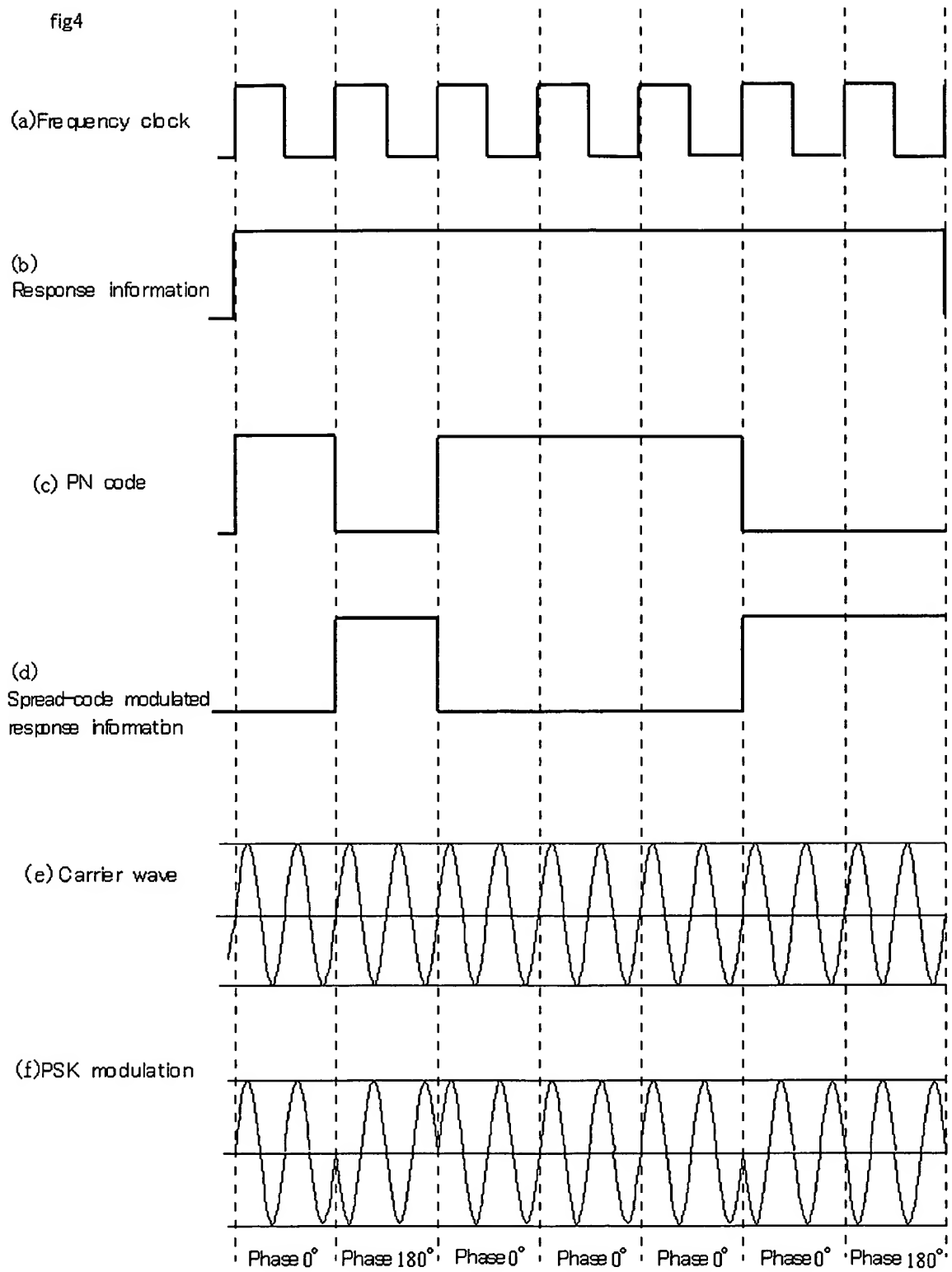


fig5

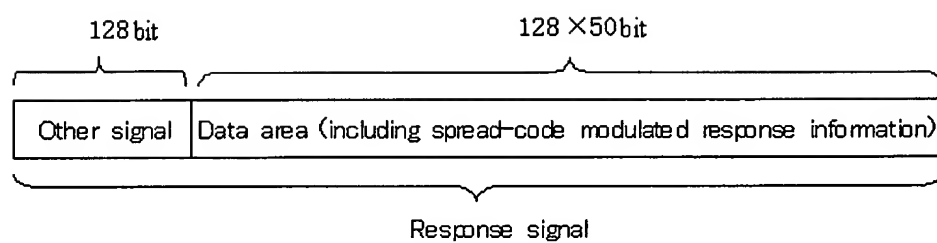


fig6

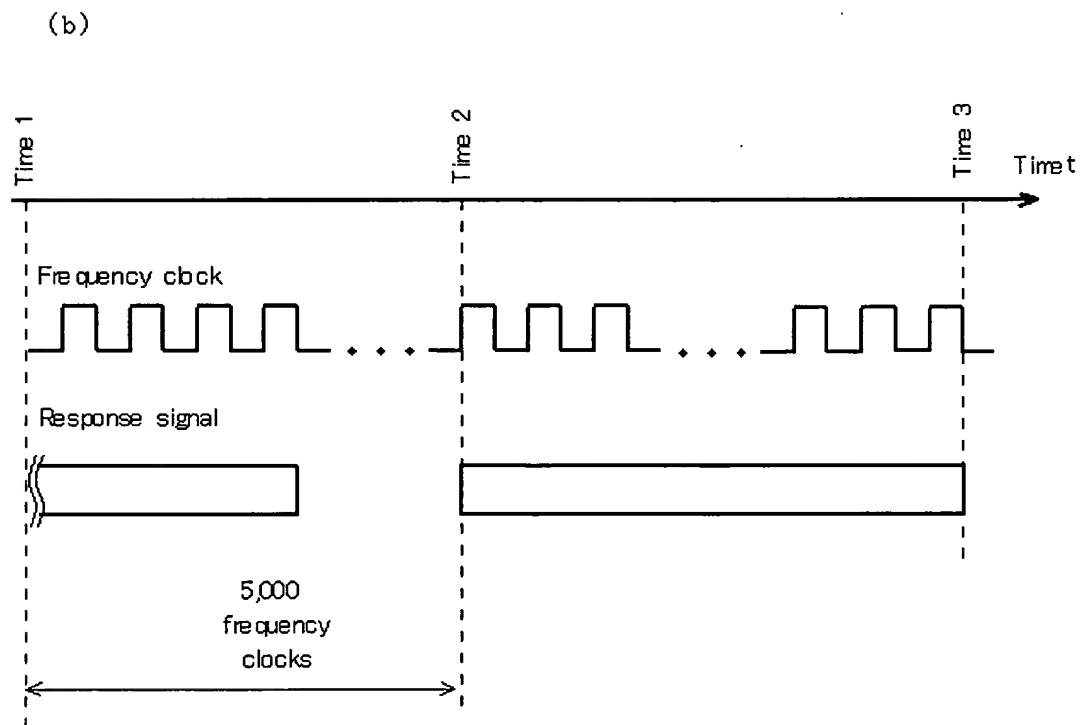
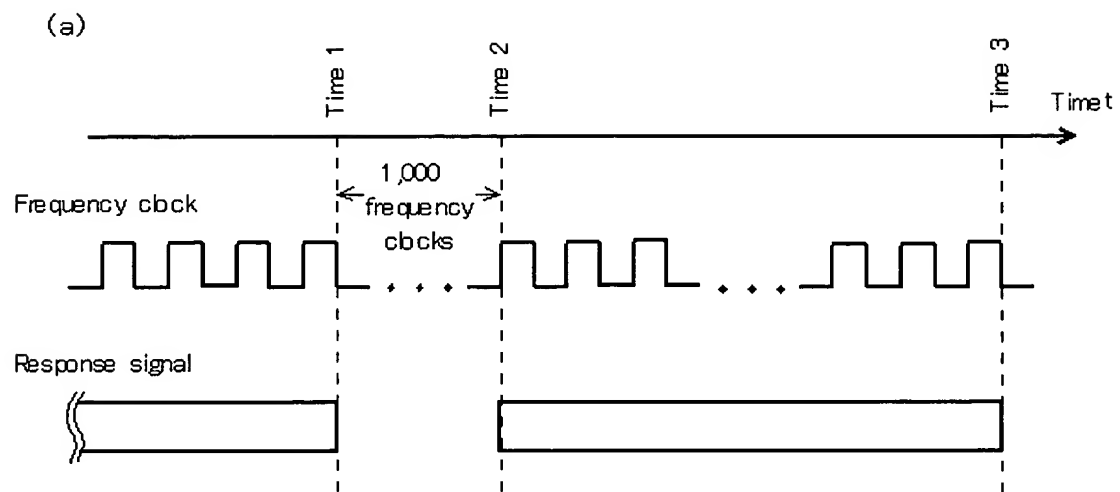


fig7

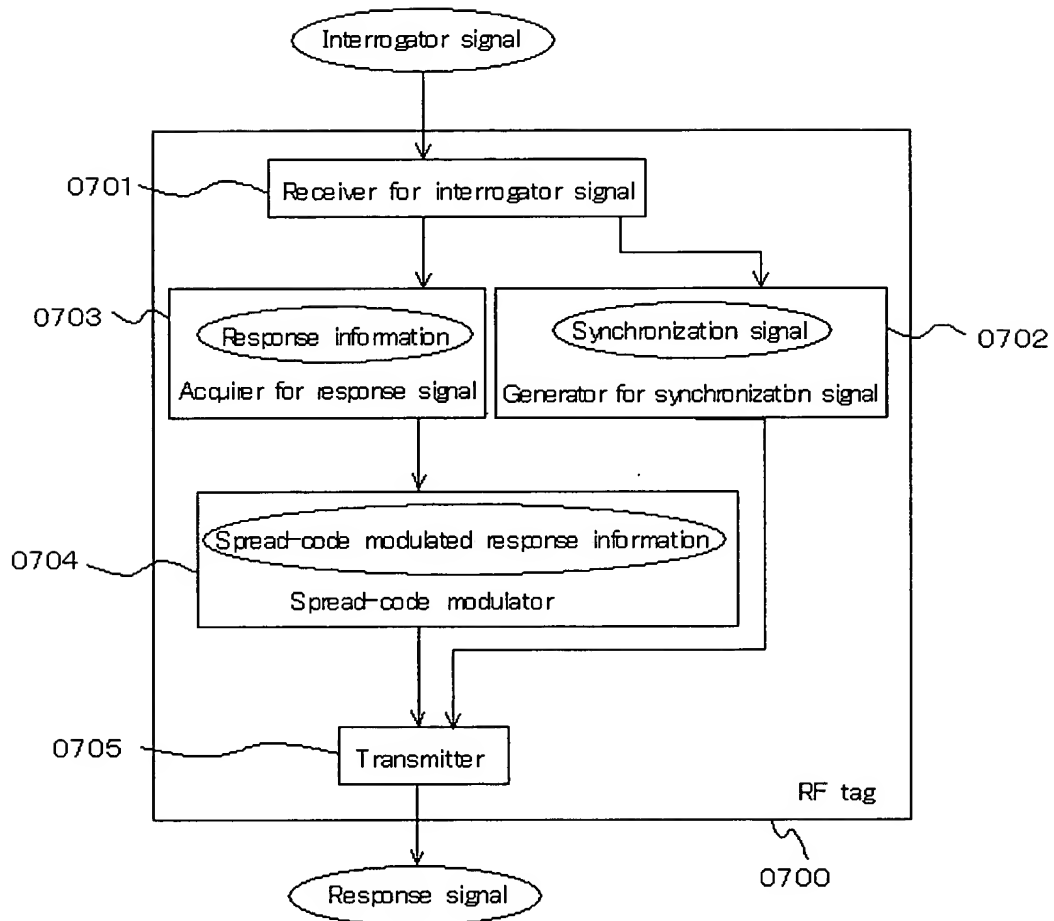


fig8

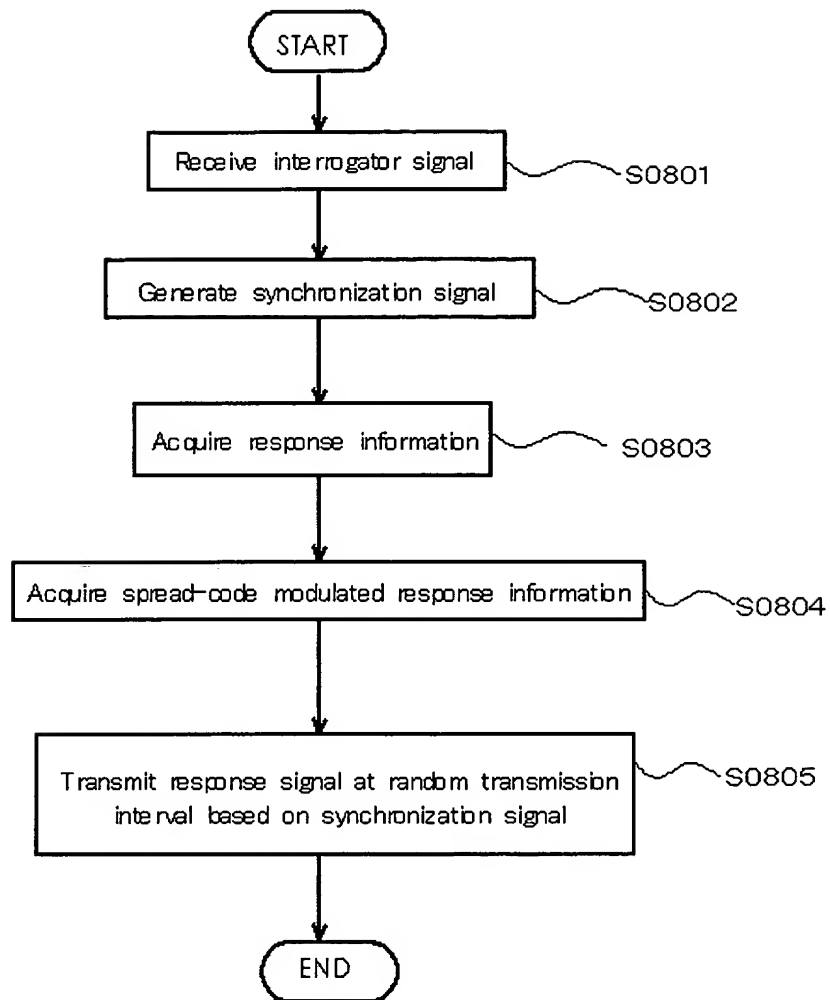


fig9

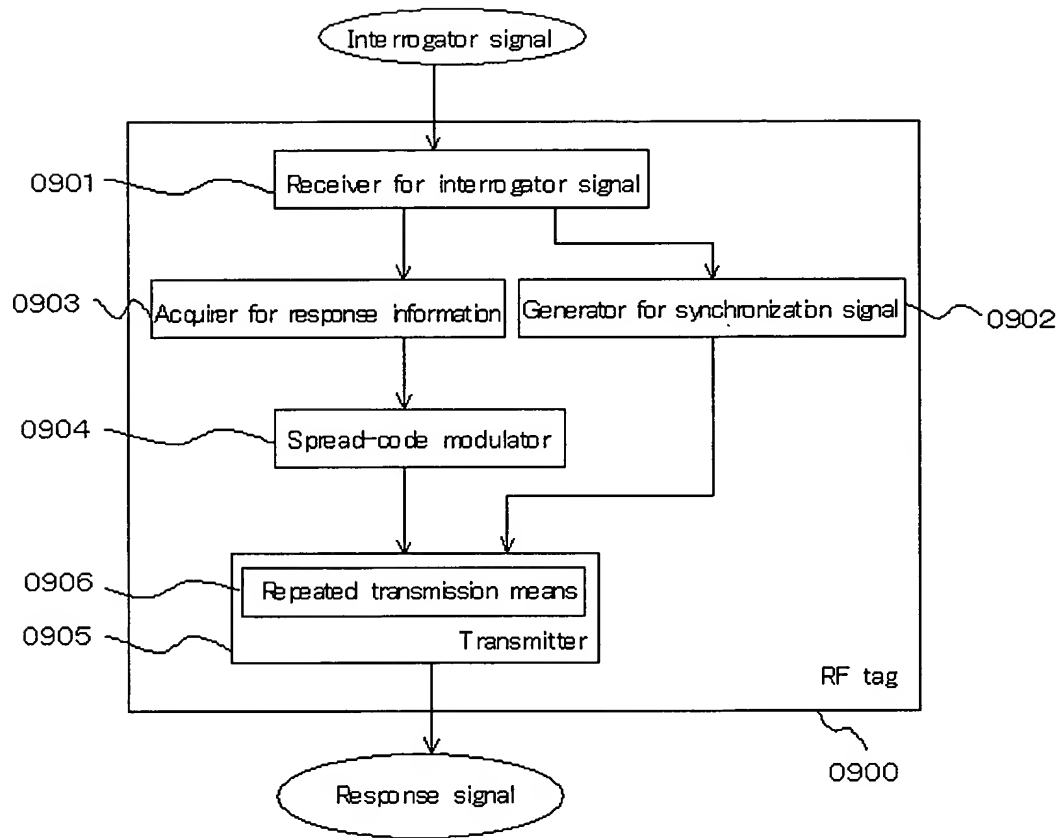
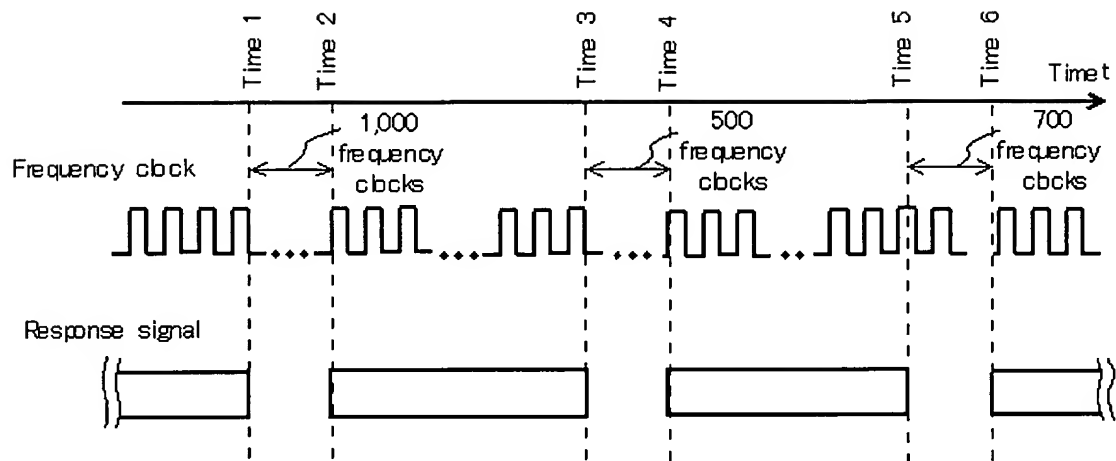


fig10

(a)



(b)

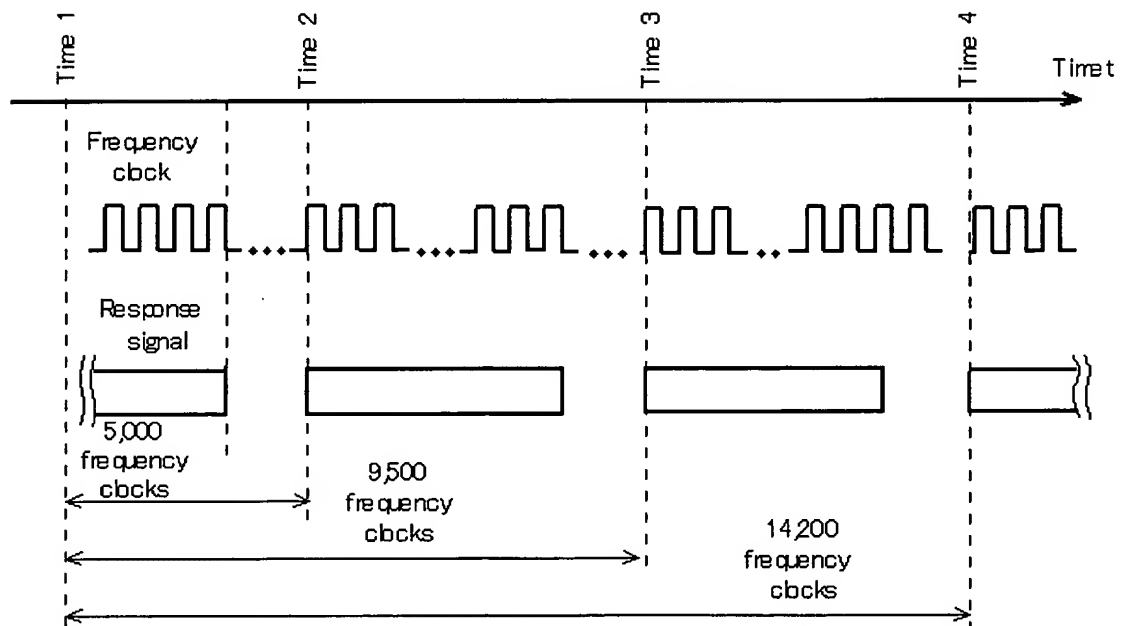


fig11

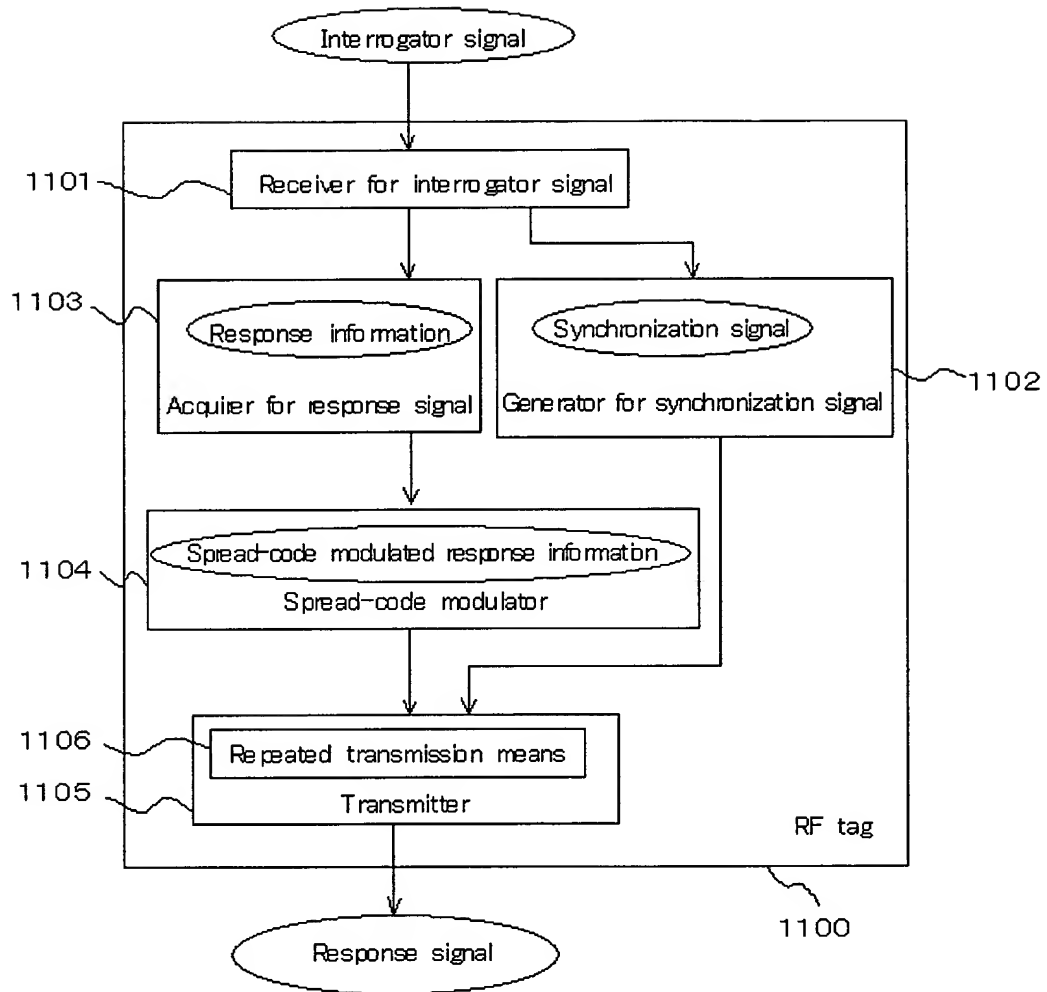


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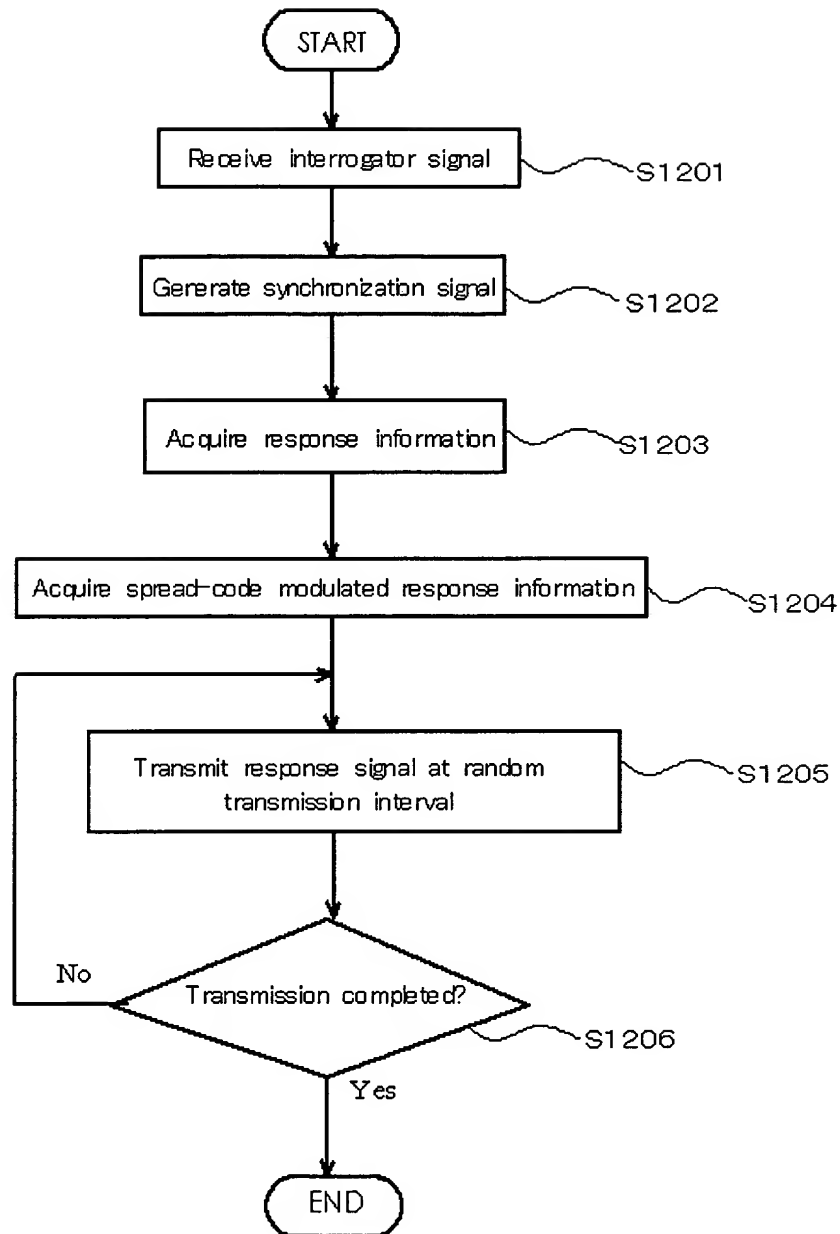


fig13

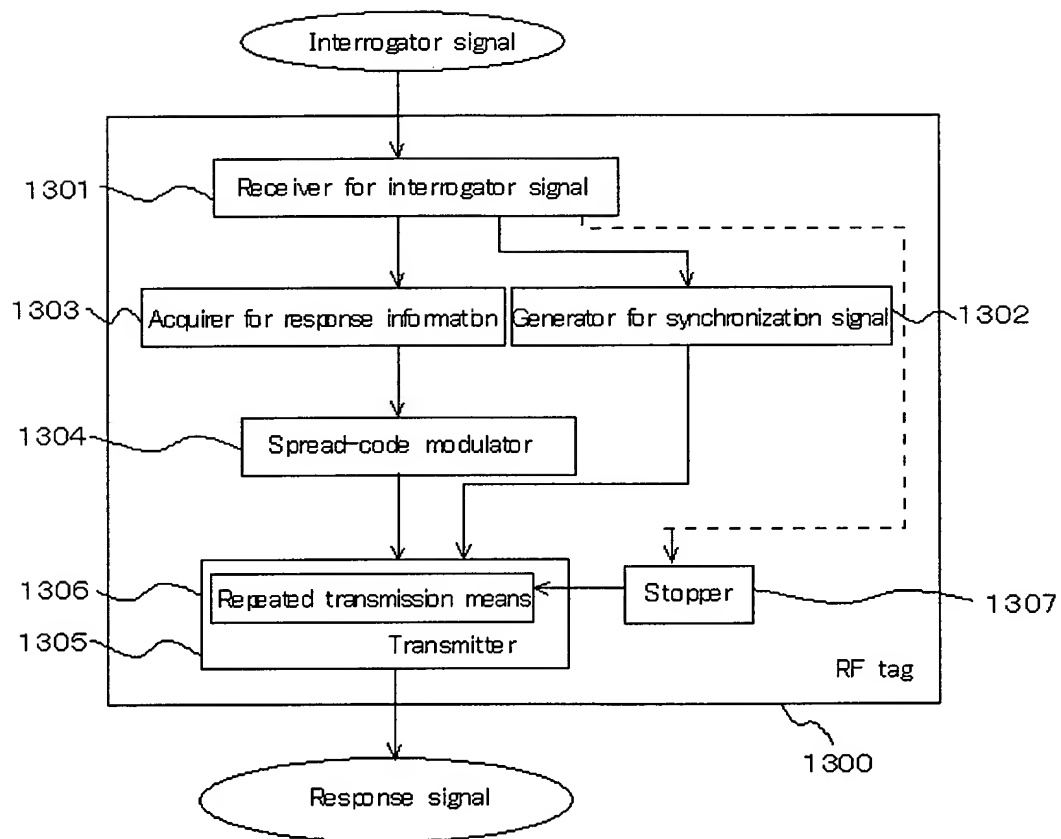


fig14

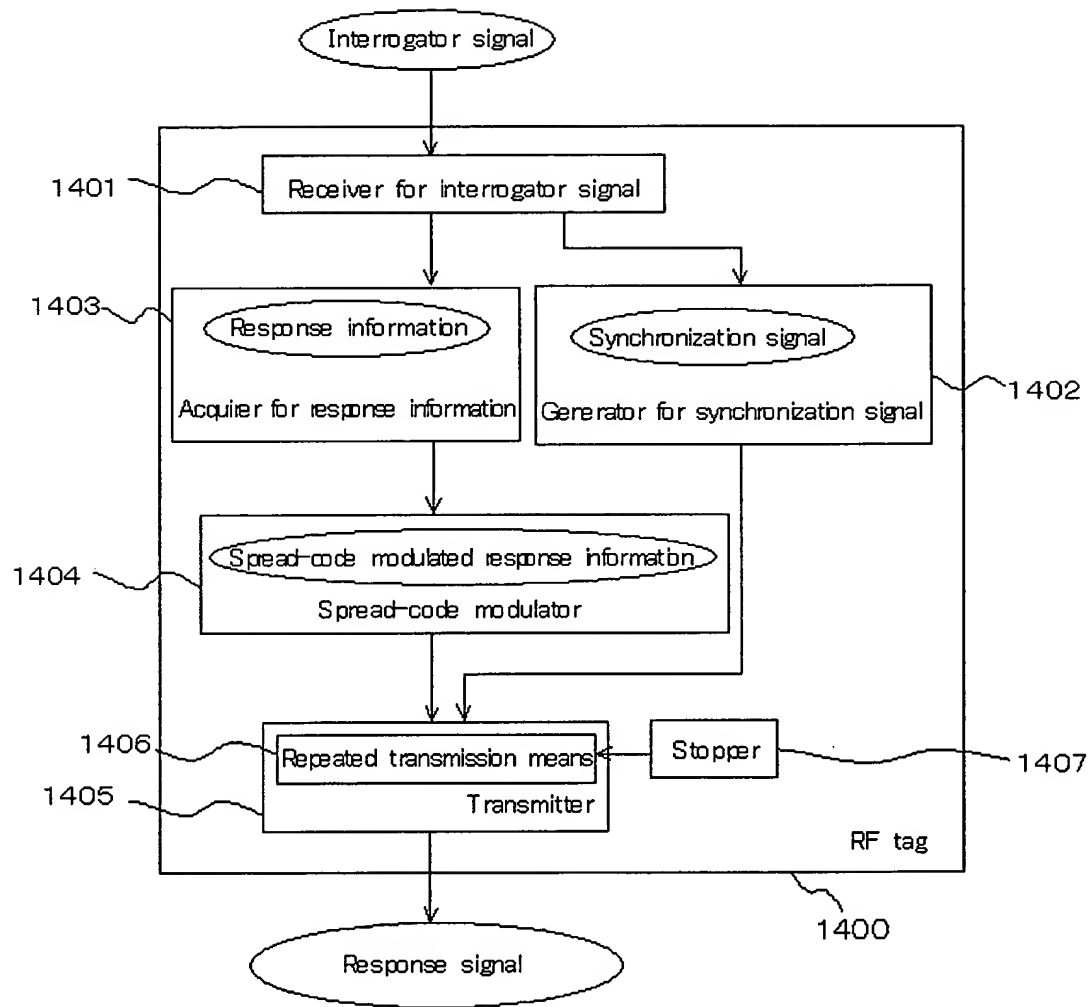


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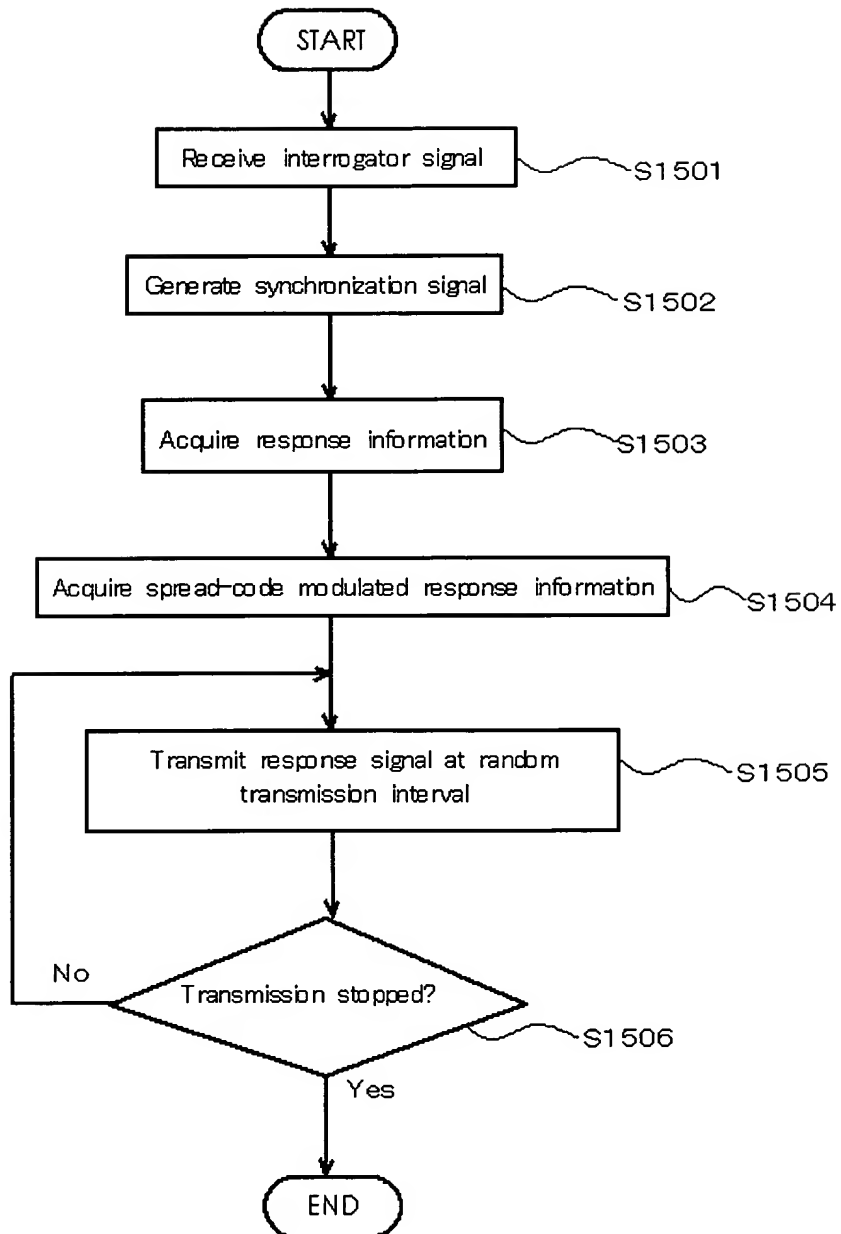


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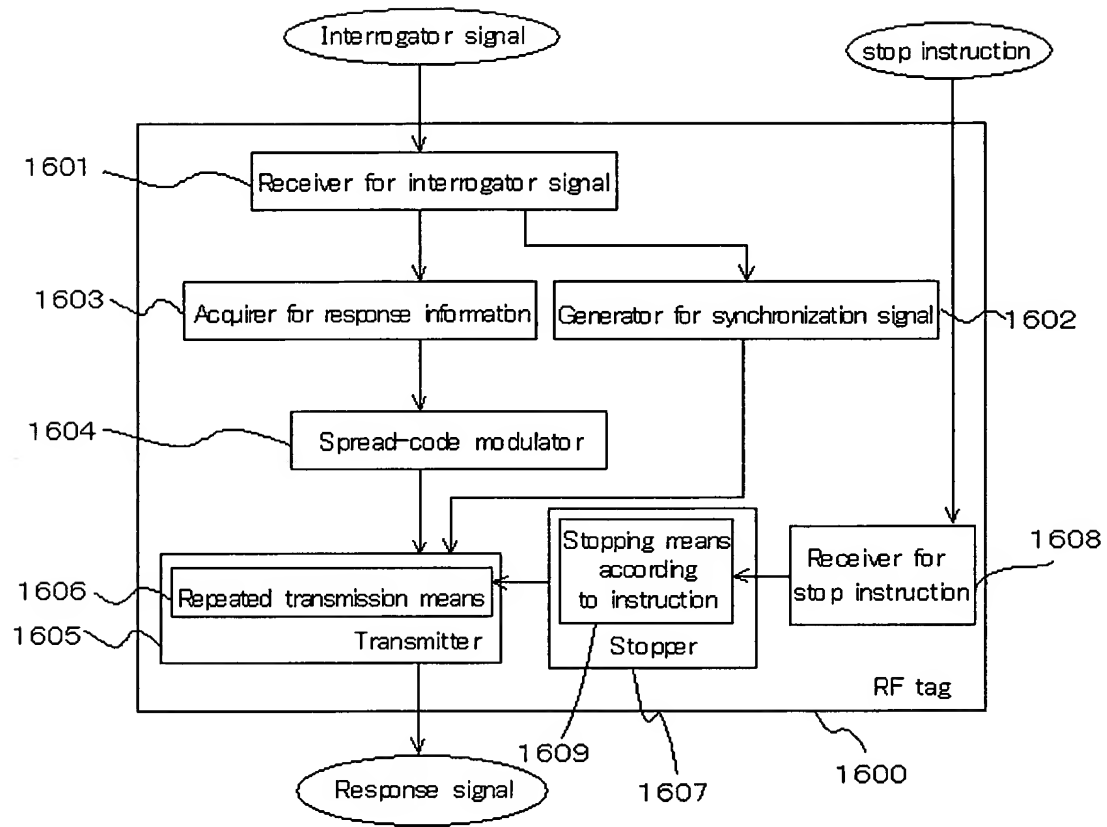


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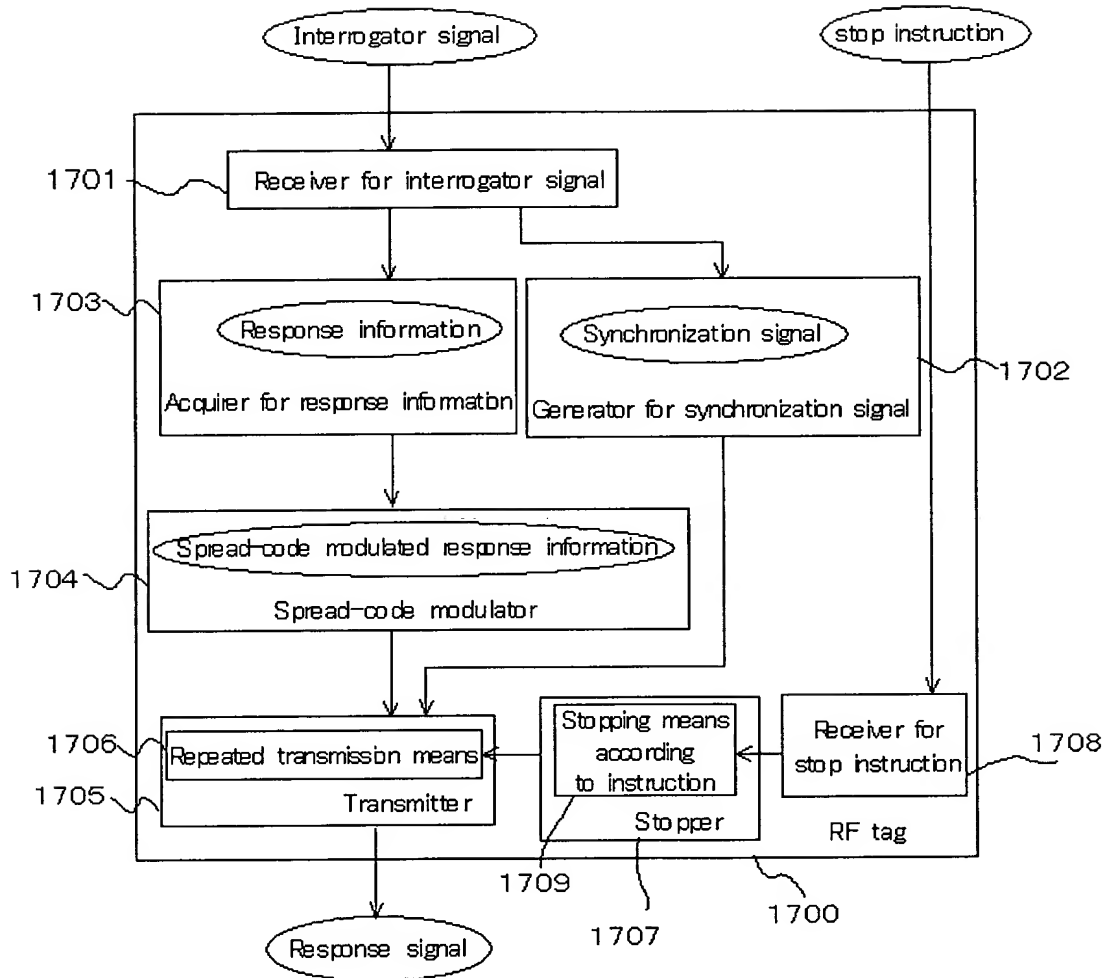


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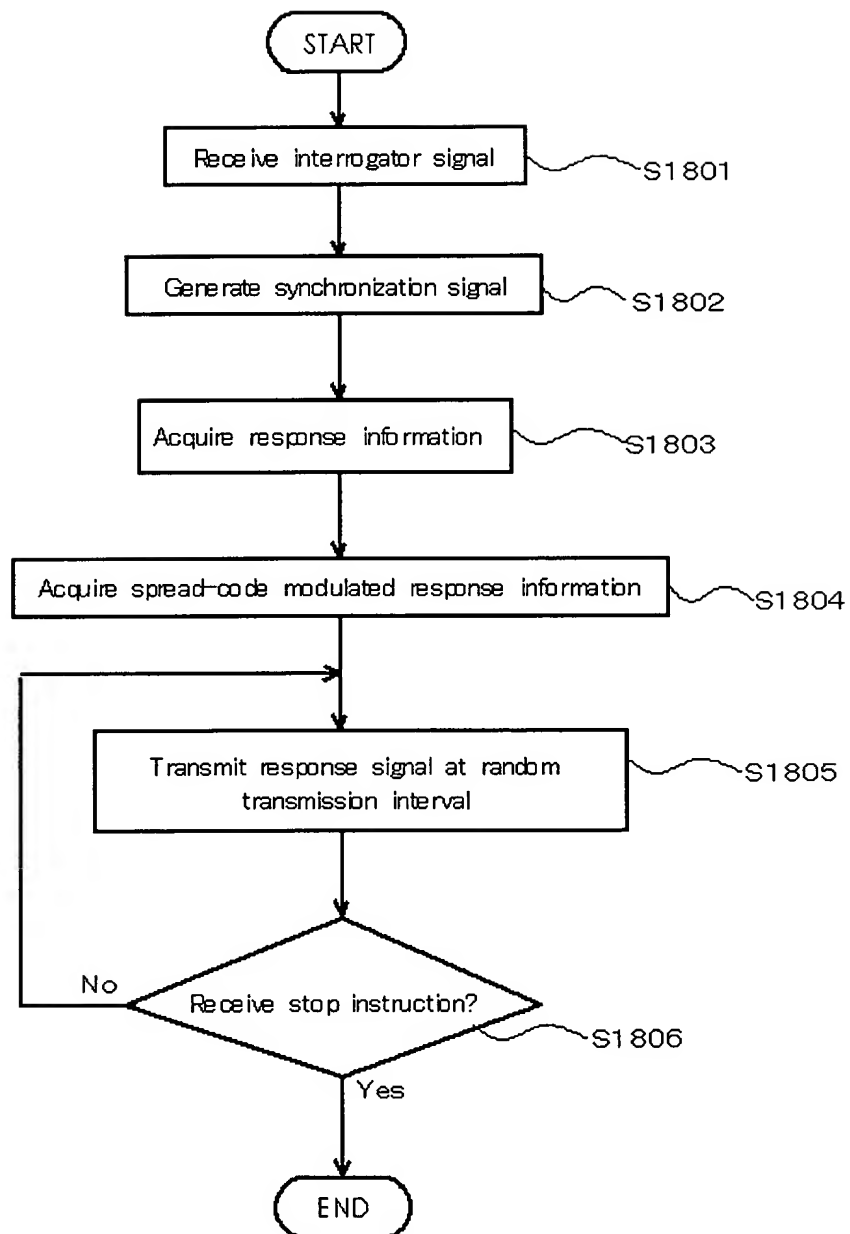


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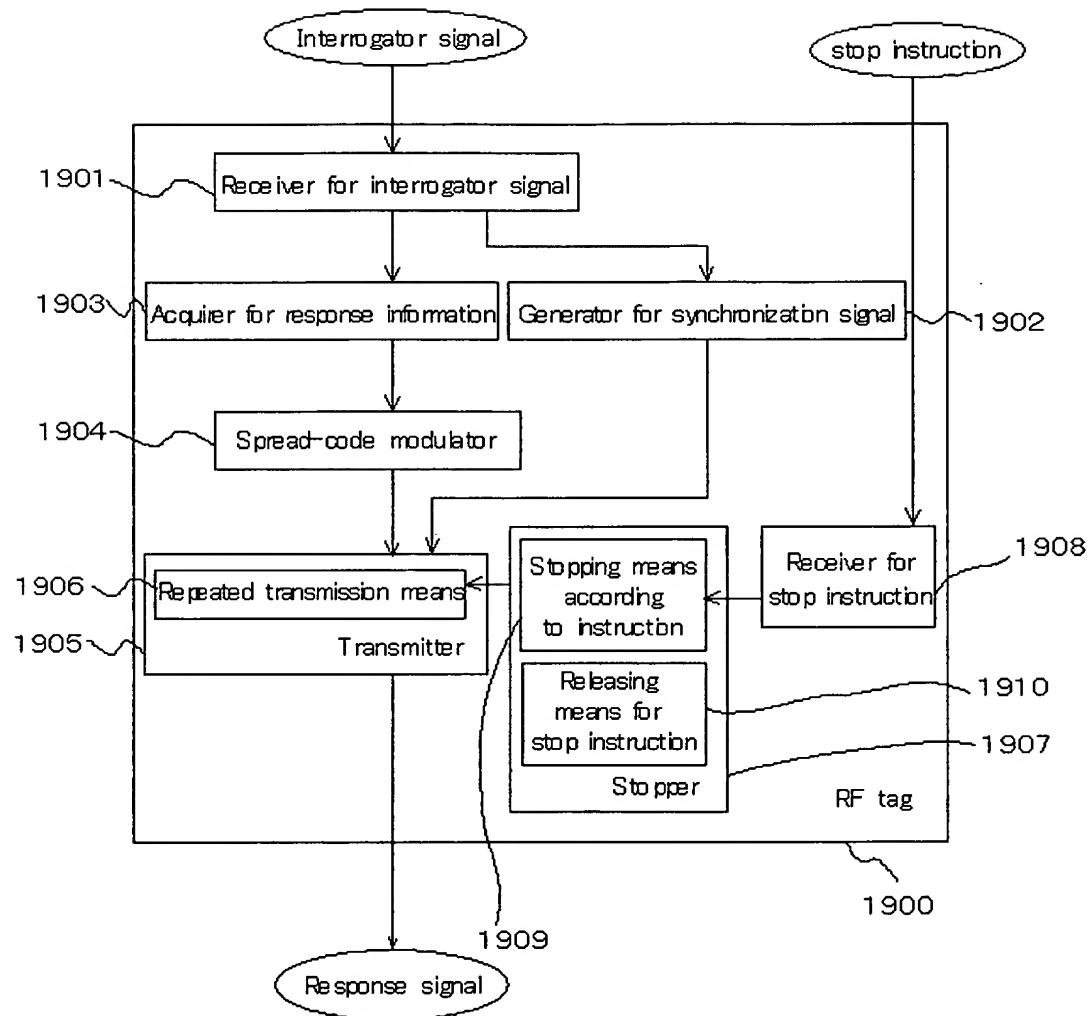


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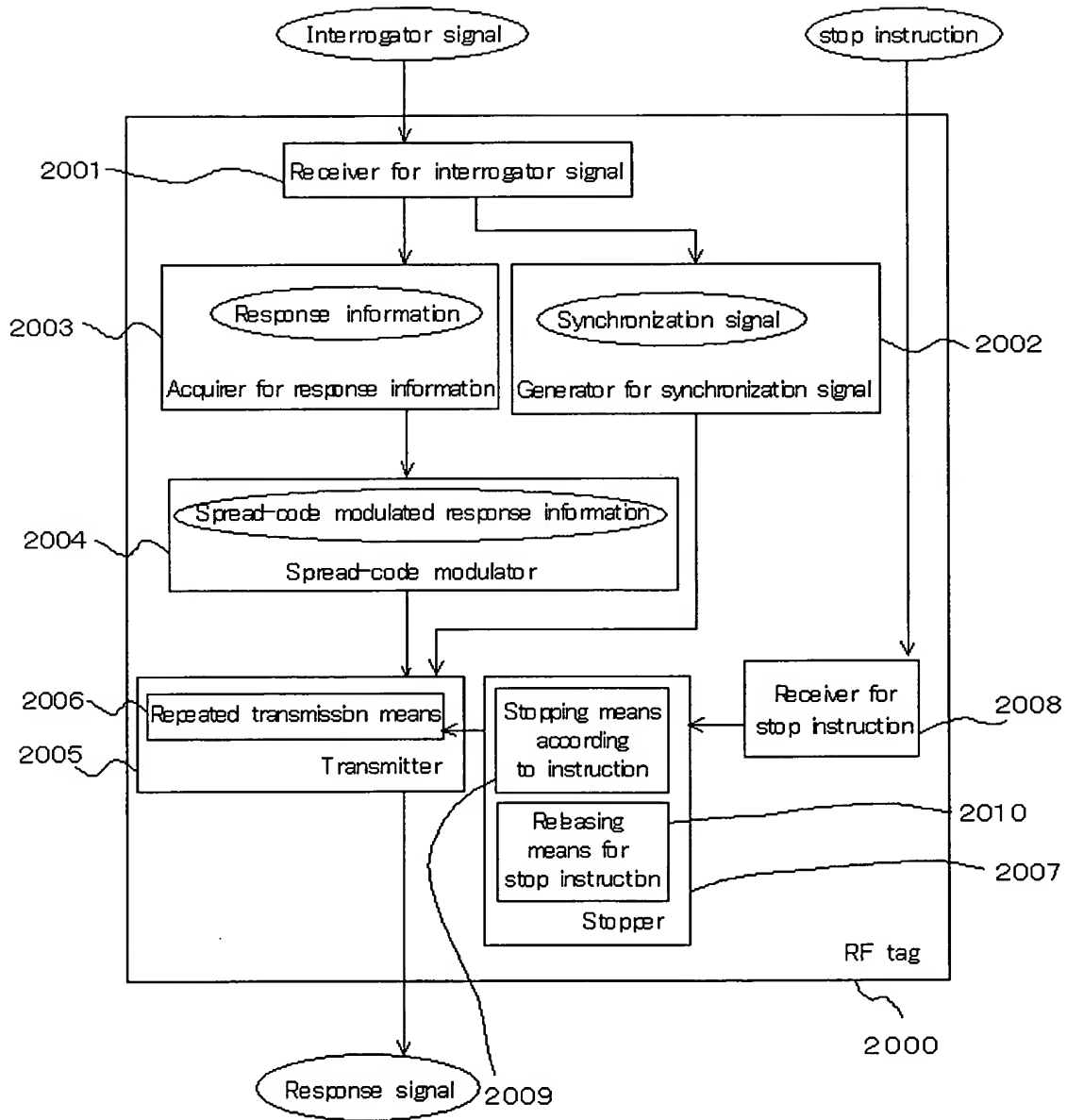


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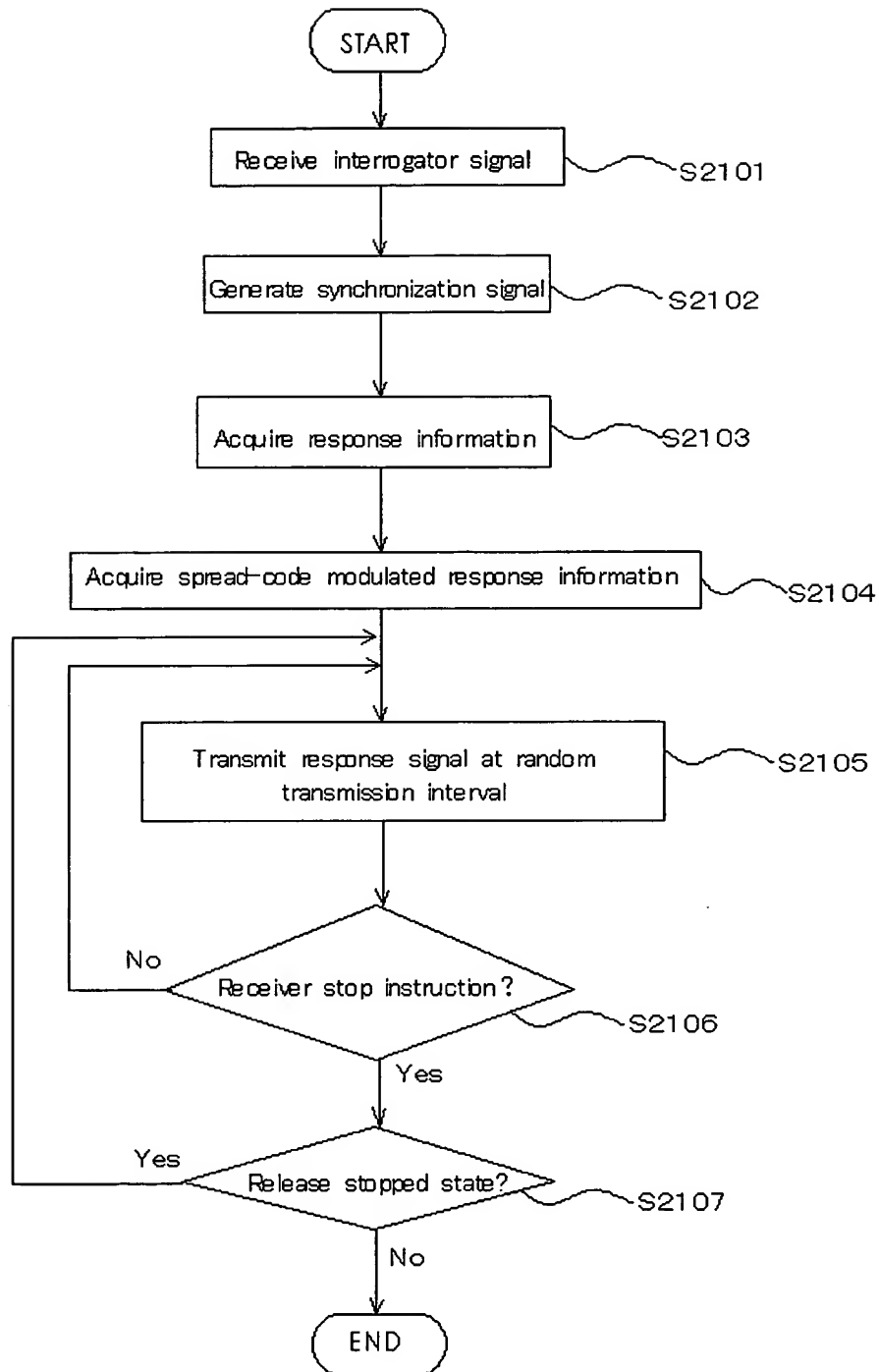


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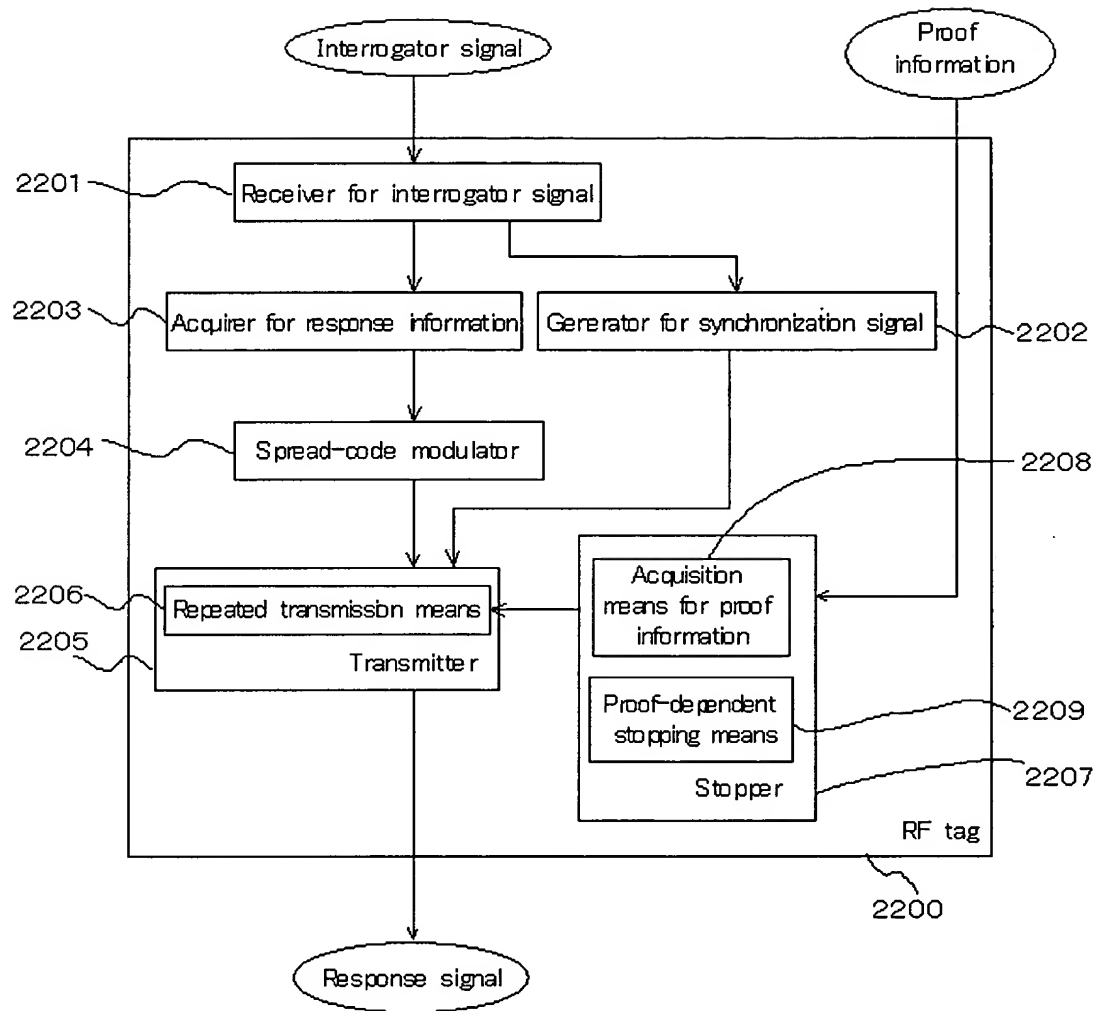


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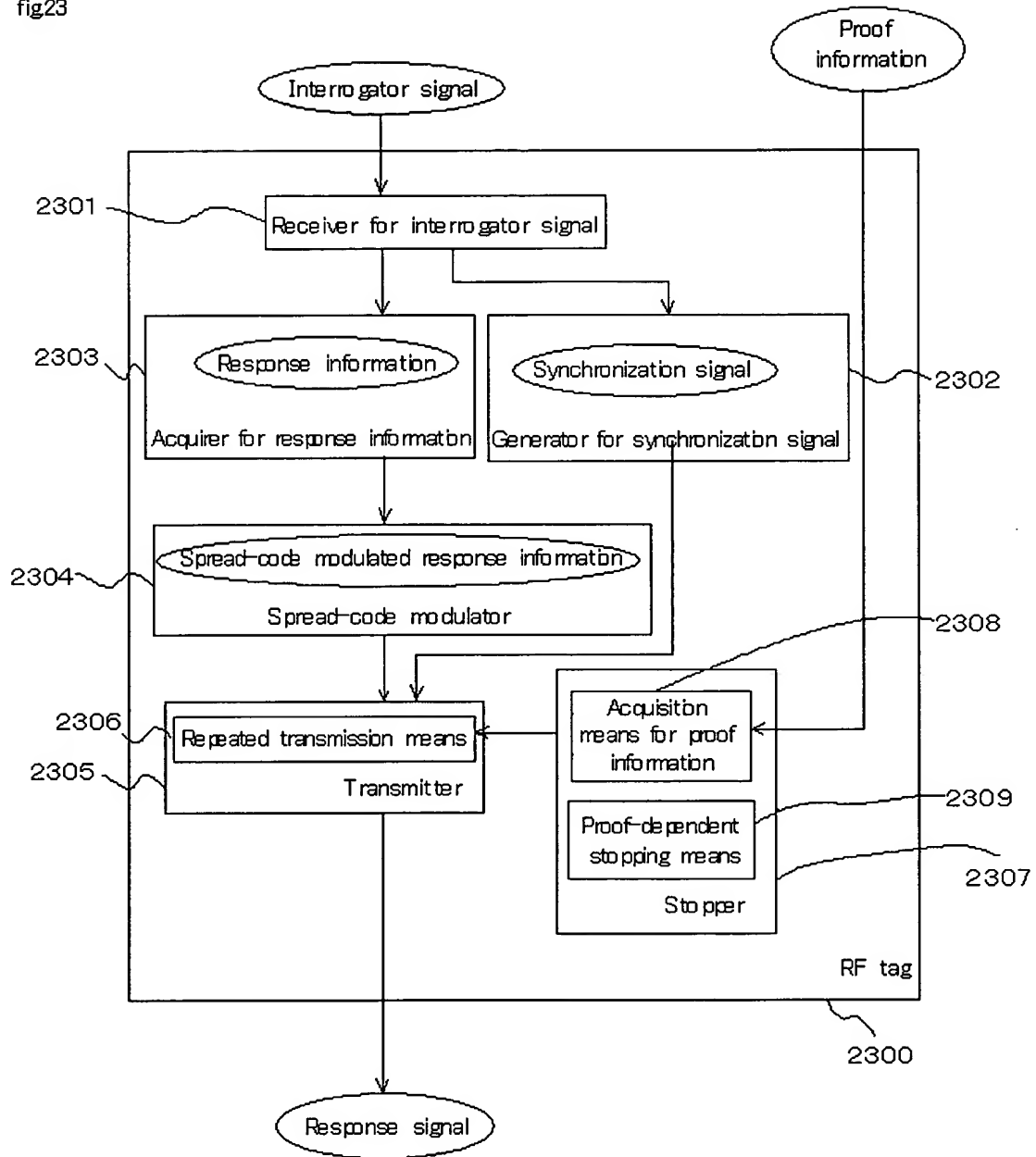


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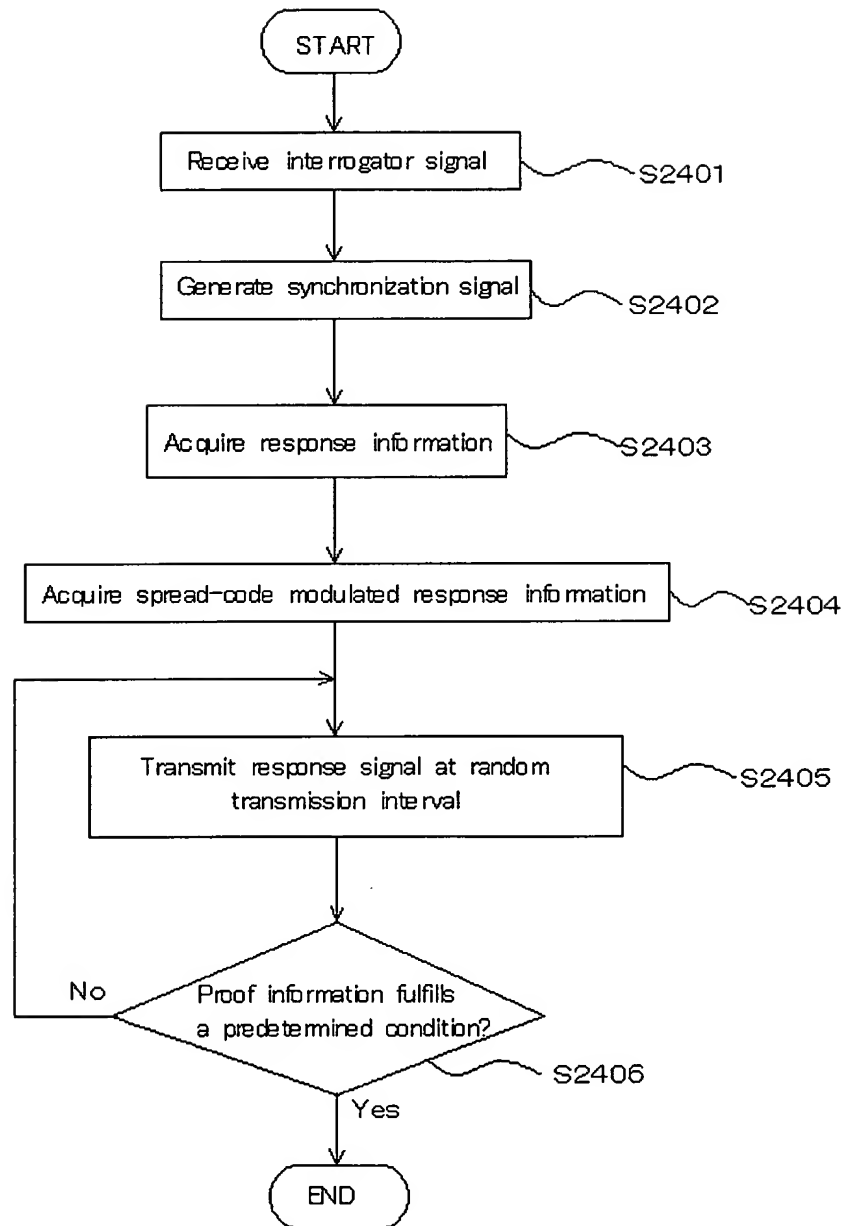


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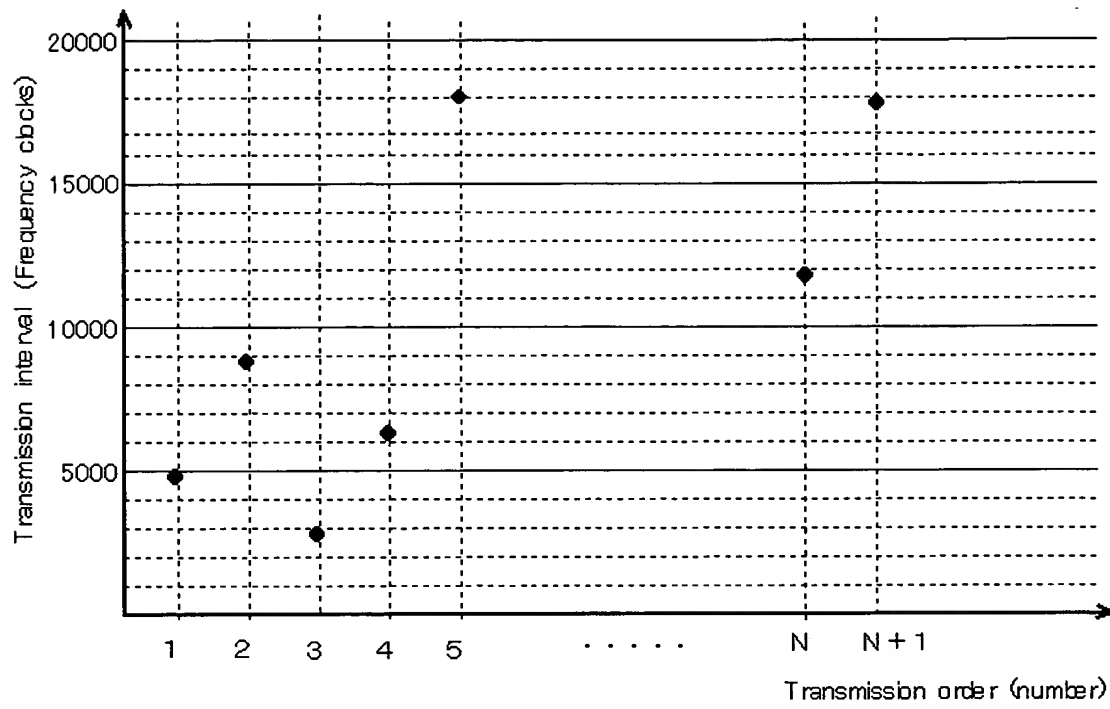


fig26

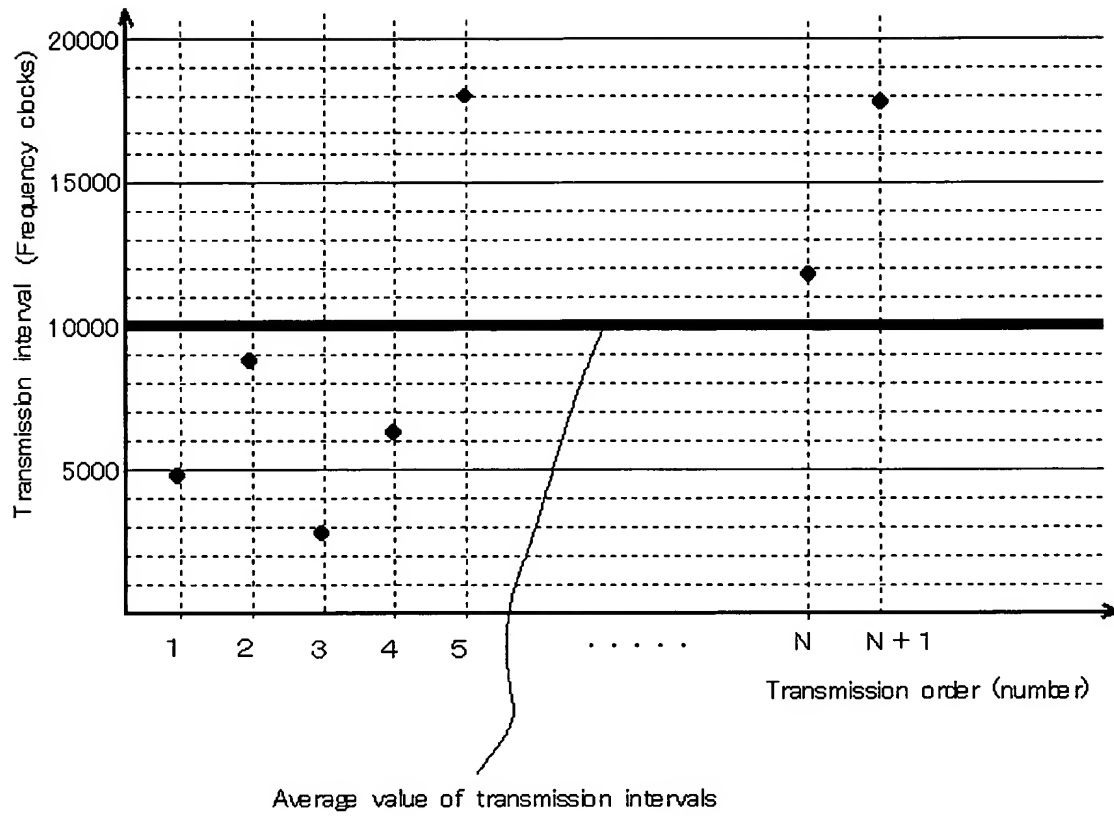


fig27

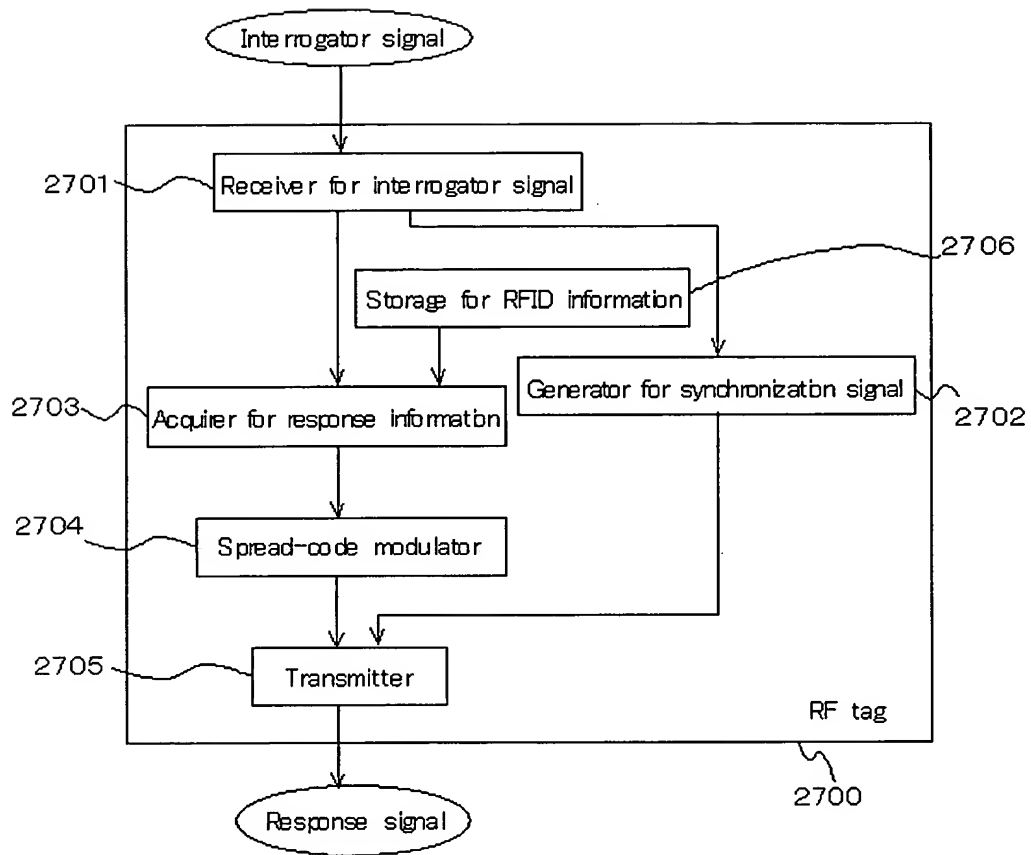


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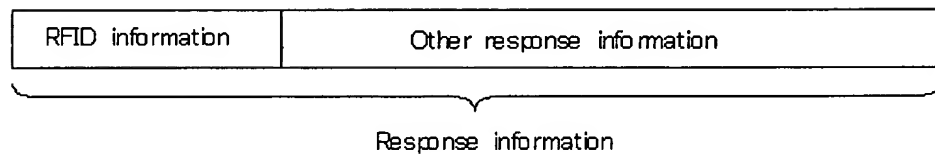


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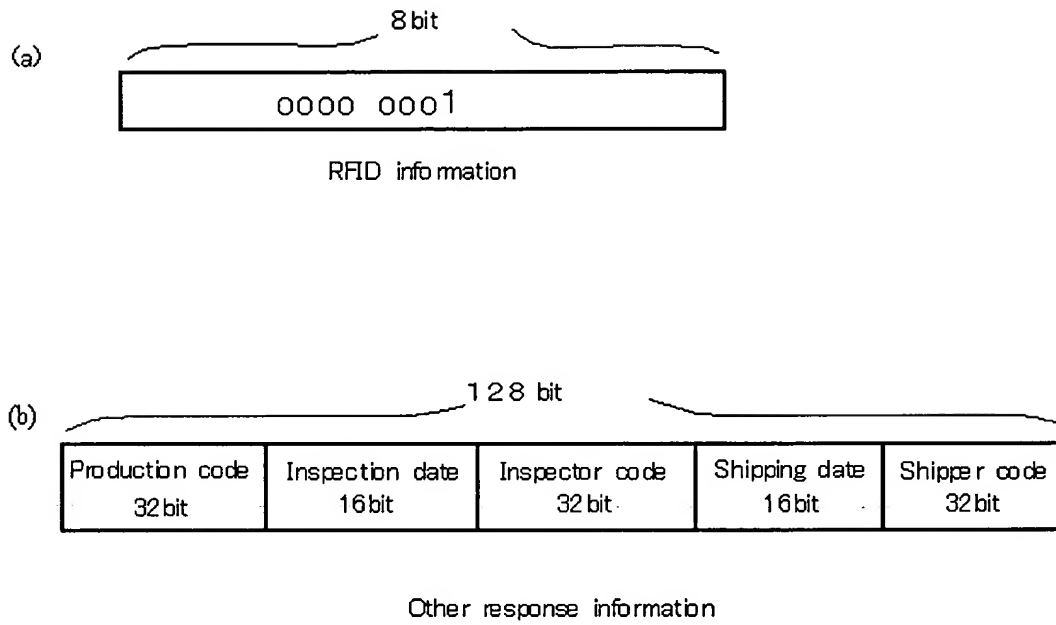


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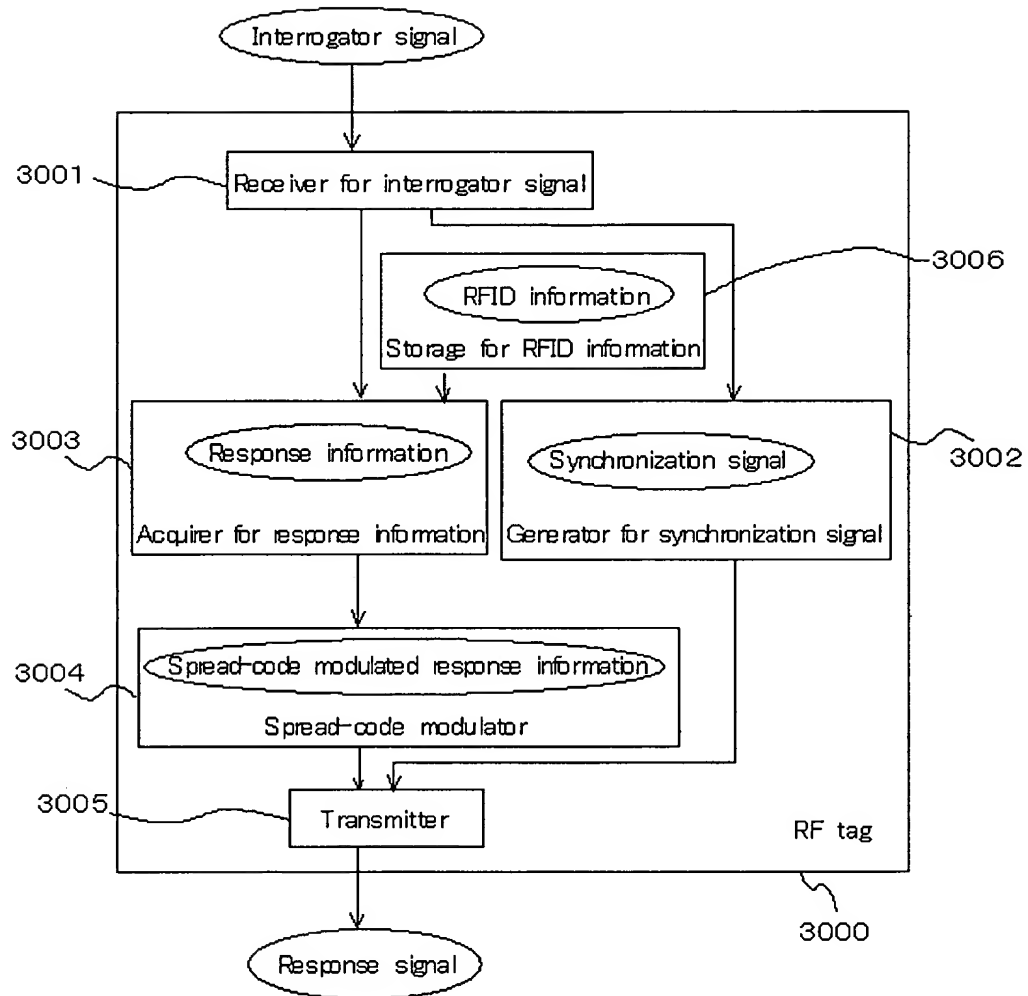


fig31

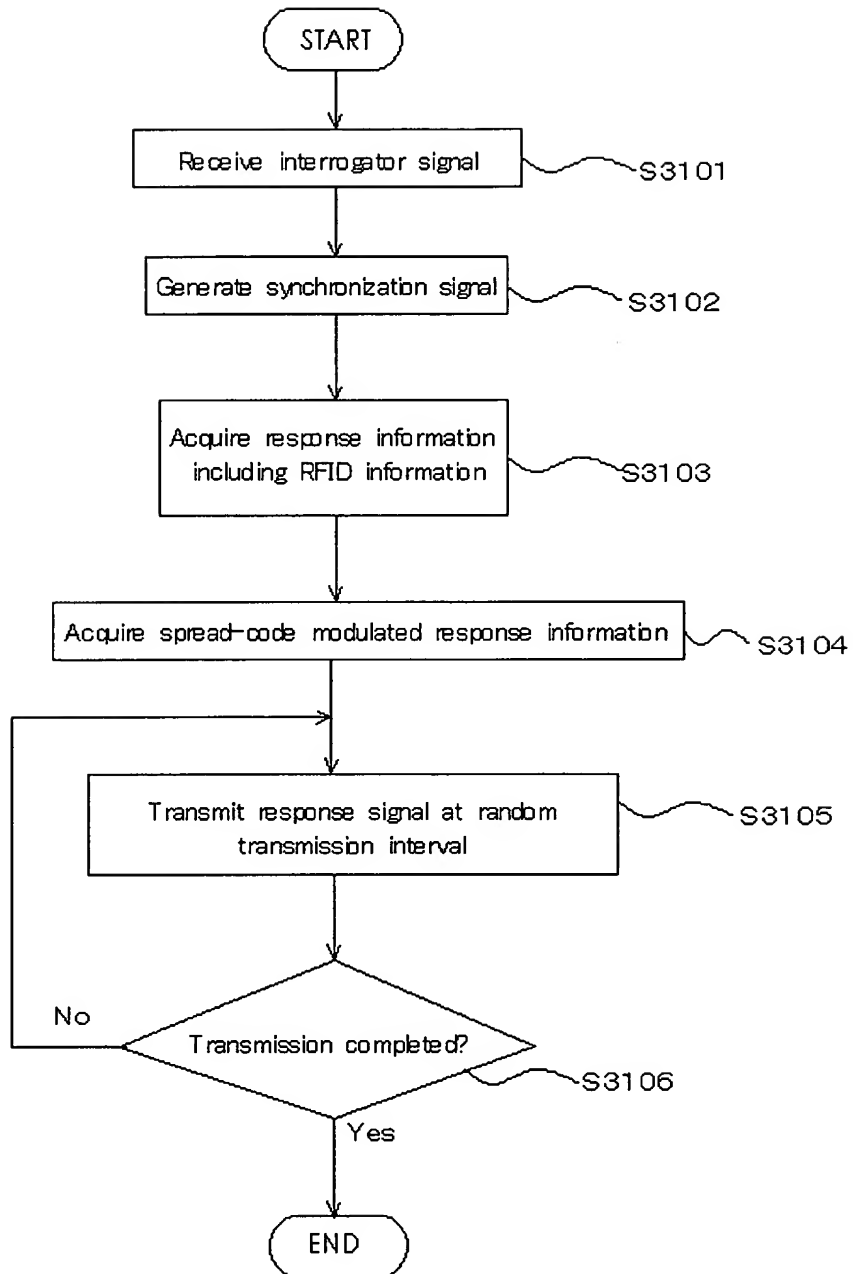


fig32

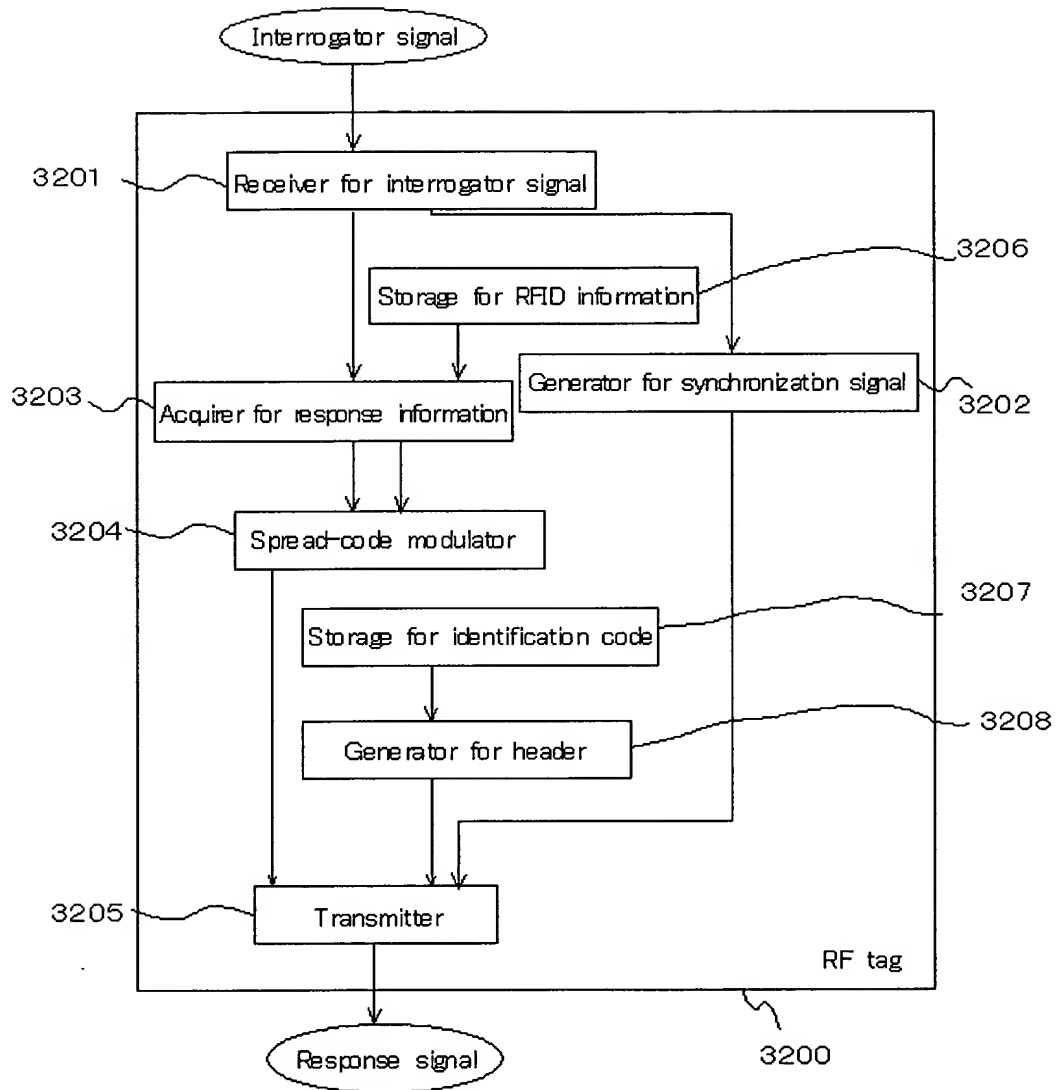


fig.33

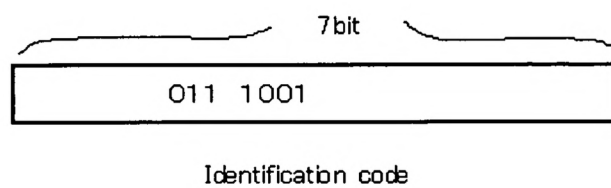


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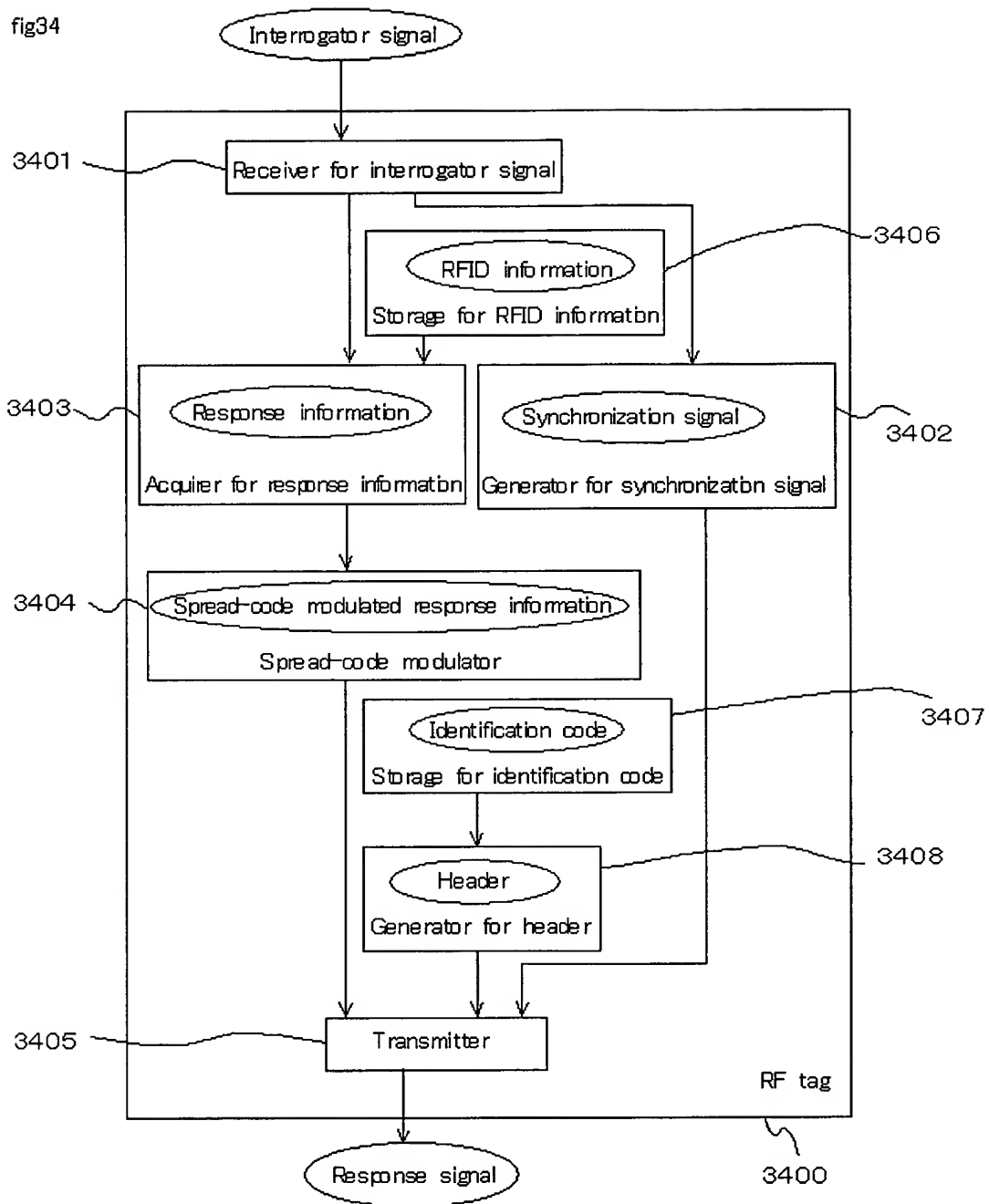


fig.35

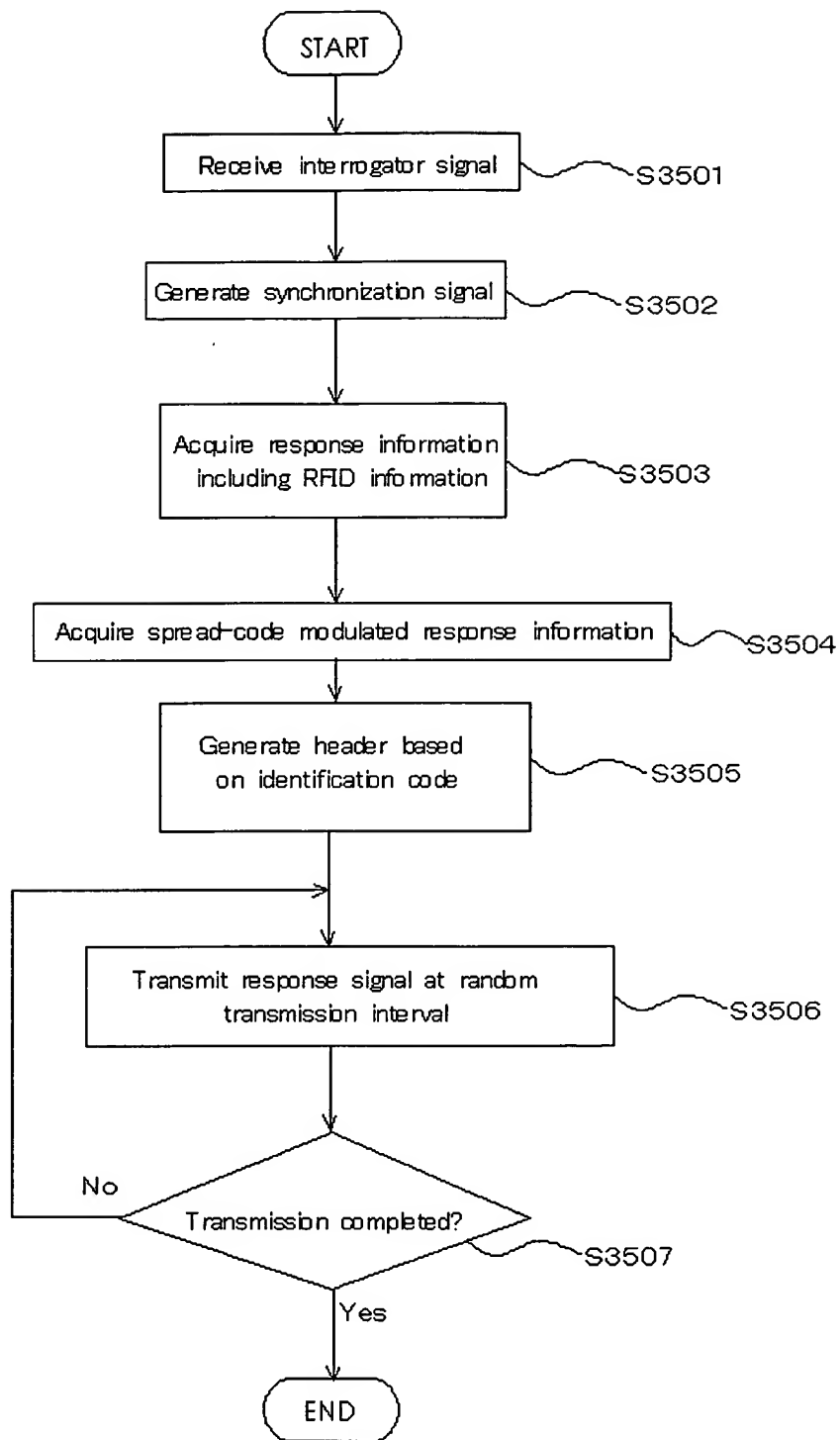


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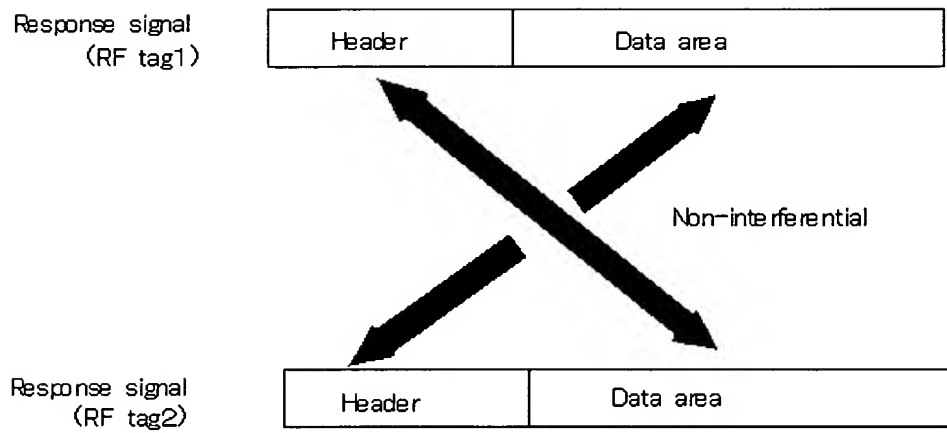


fig.37

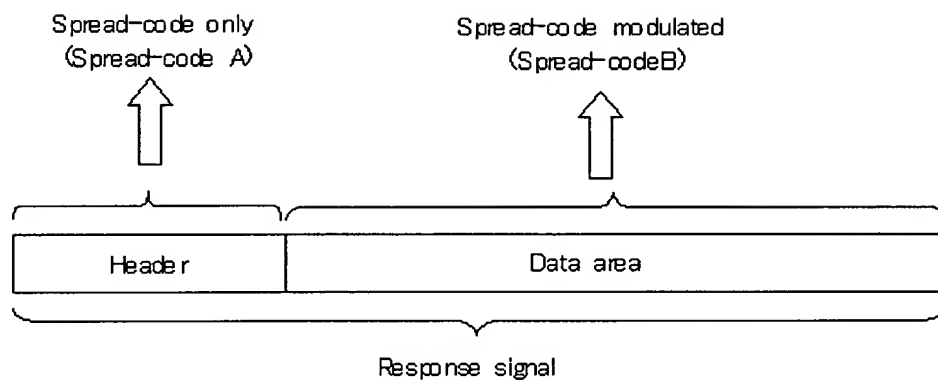


fig38

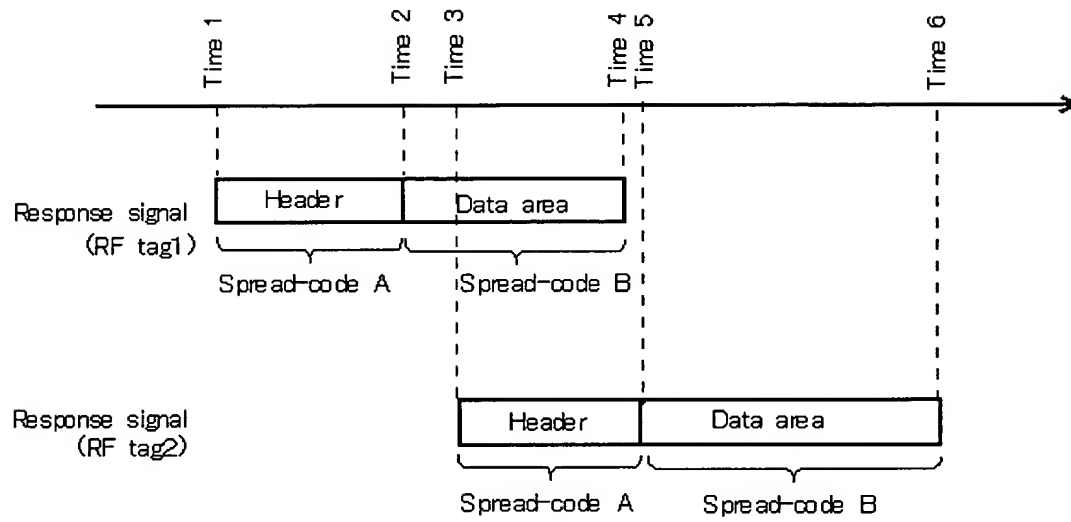


fig39

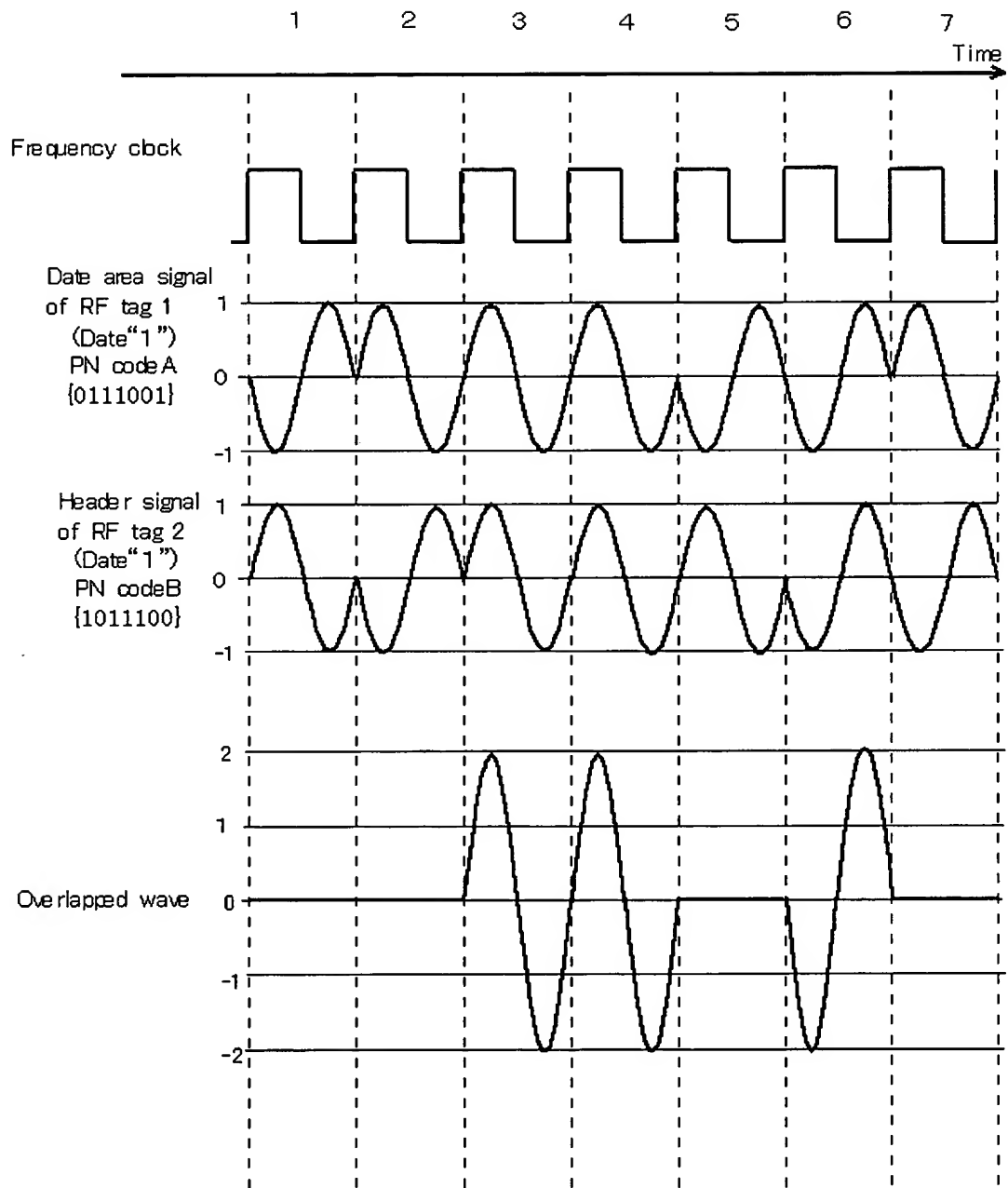


fig40

$$DL^n: \text{Code correlation} = \frac{\vec{\omega} \cdot \vec{PN}^n}{L}$$

$$\vec{\omega}: \text{Overlapped wave} = [0 \ 0 \ +2 \ +2 \ 0 \ -2 \ 0]$$

$$\vec{PN}^n: \text{Code having correlation}$$

$$\vec{PN1} = [-1 \ +1 \ +1 \ +1 \ -1 \ -1 \ +1]$$

$$\vec{PN2} = [+1 \ -1 \ +1 \ +1 \ +1 \ -1 \ -1]$$

$$L: \text{Code length} = 7$$

$$DL1 = \frac{+6}{7} \rightarrow "1"$$

$$DL2 = \frac{+6}{7} \rightarrow "1"$$

fig41

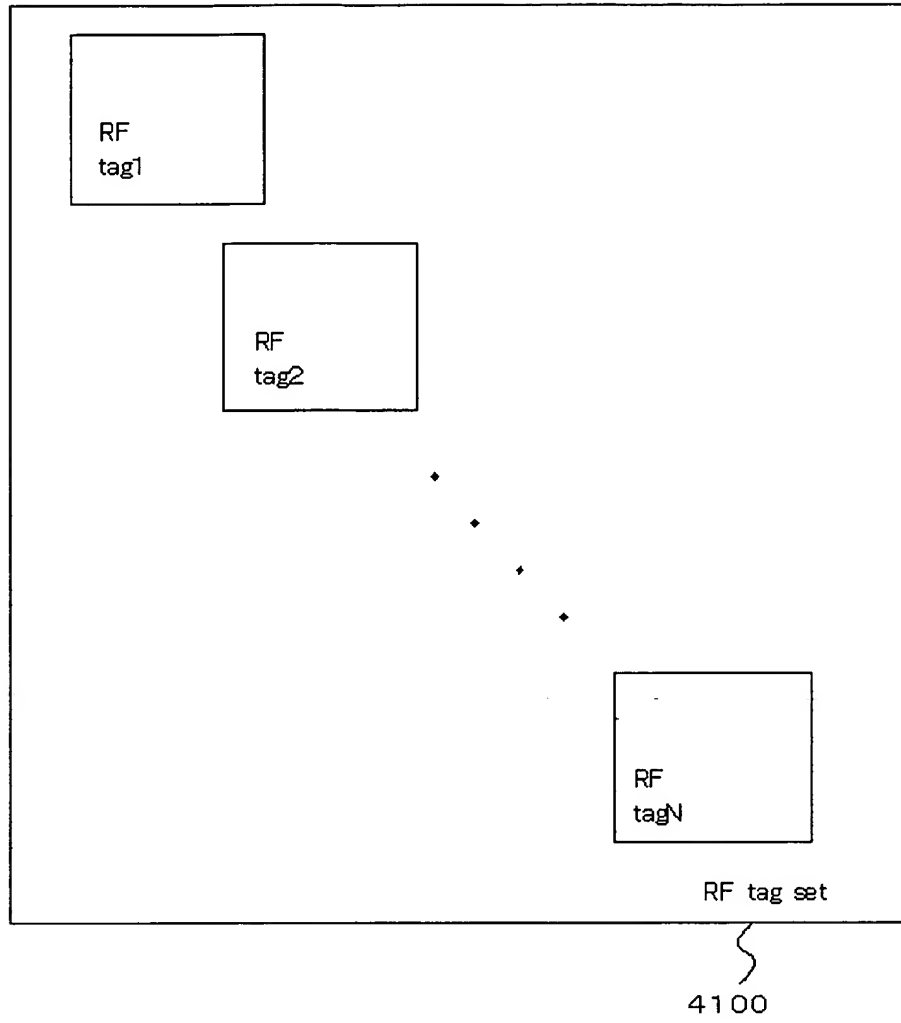
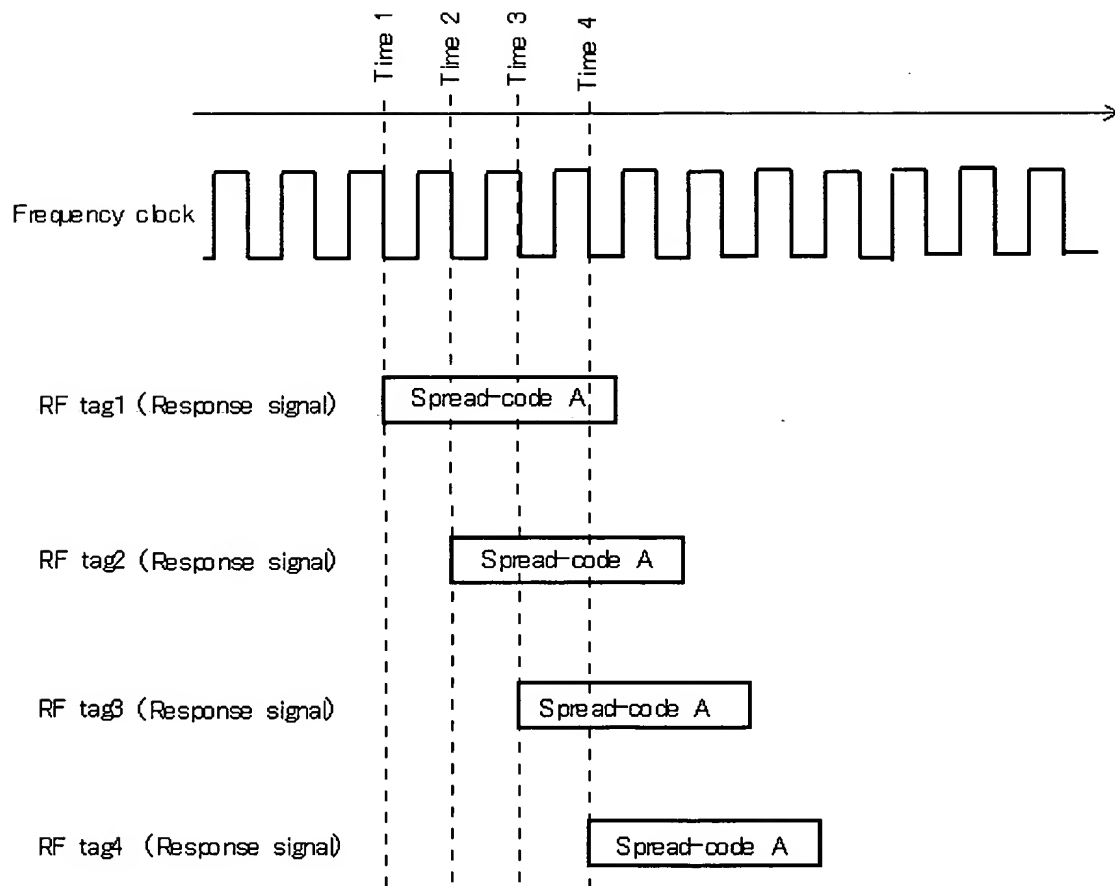


fig42



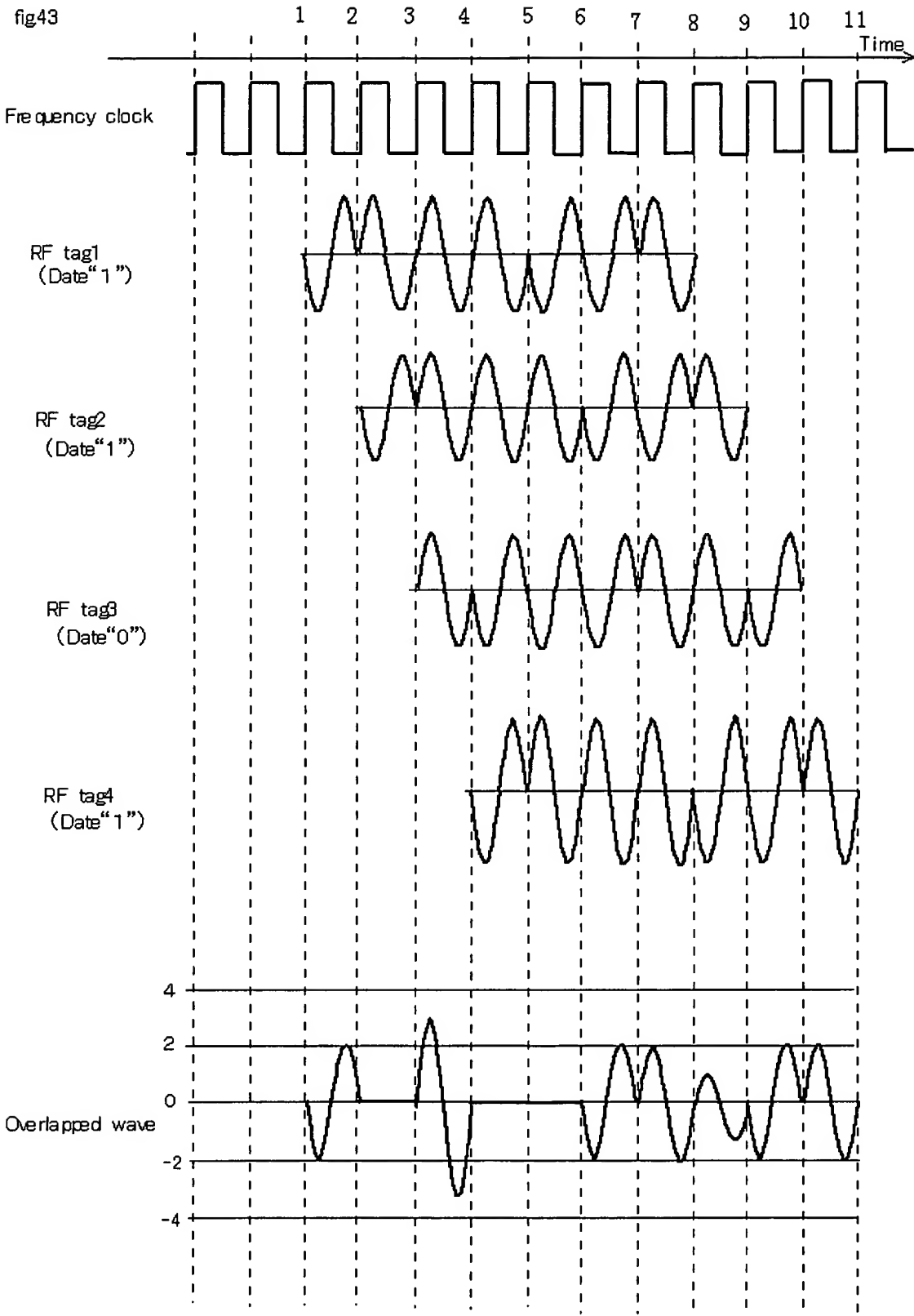


fig44

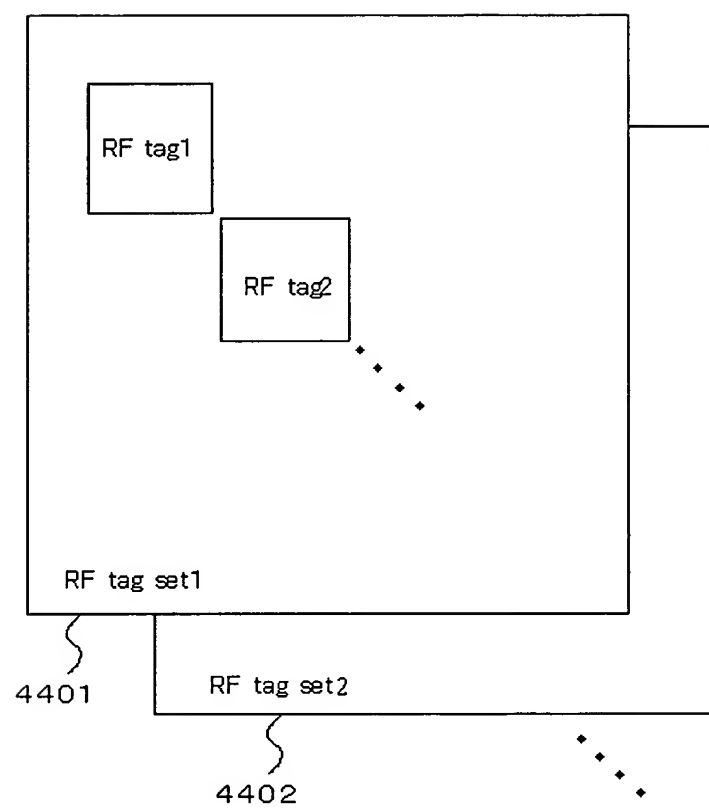


fig45

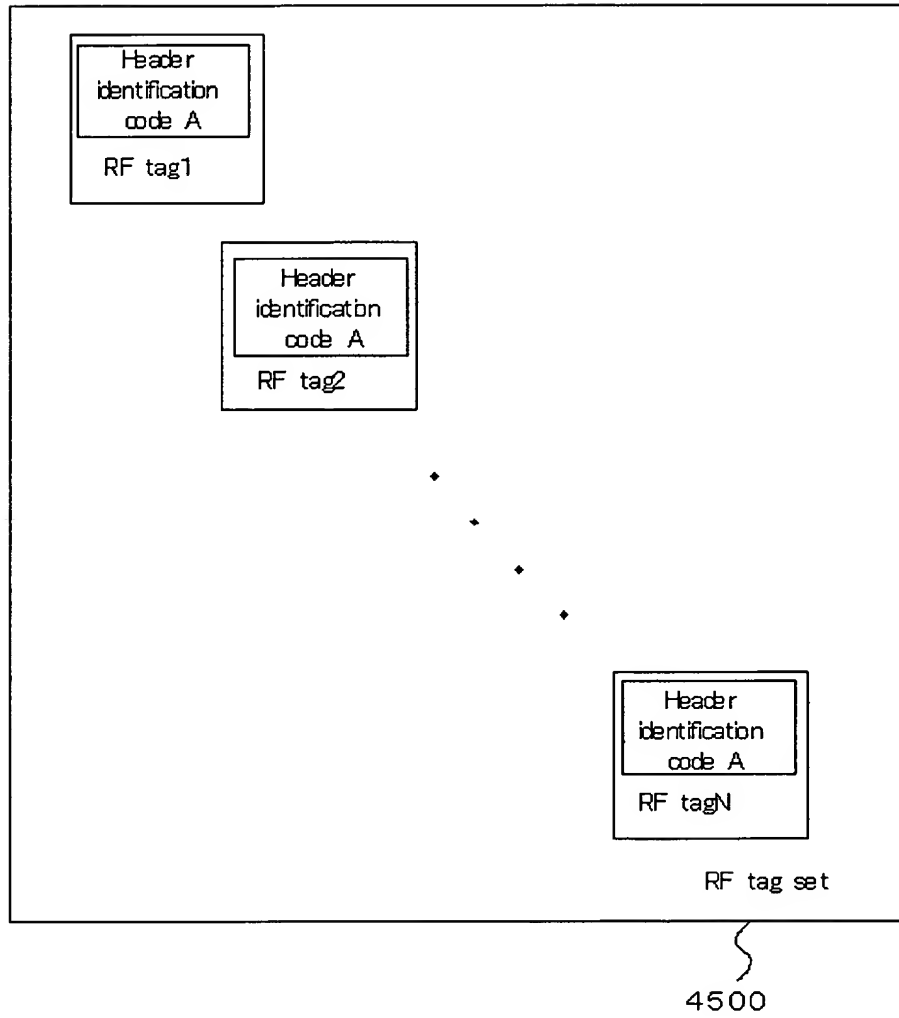


fig46

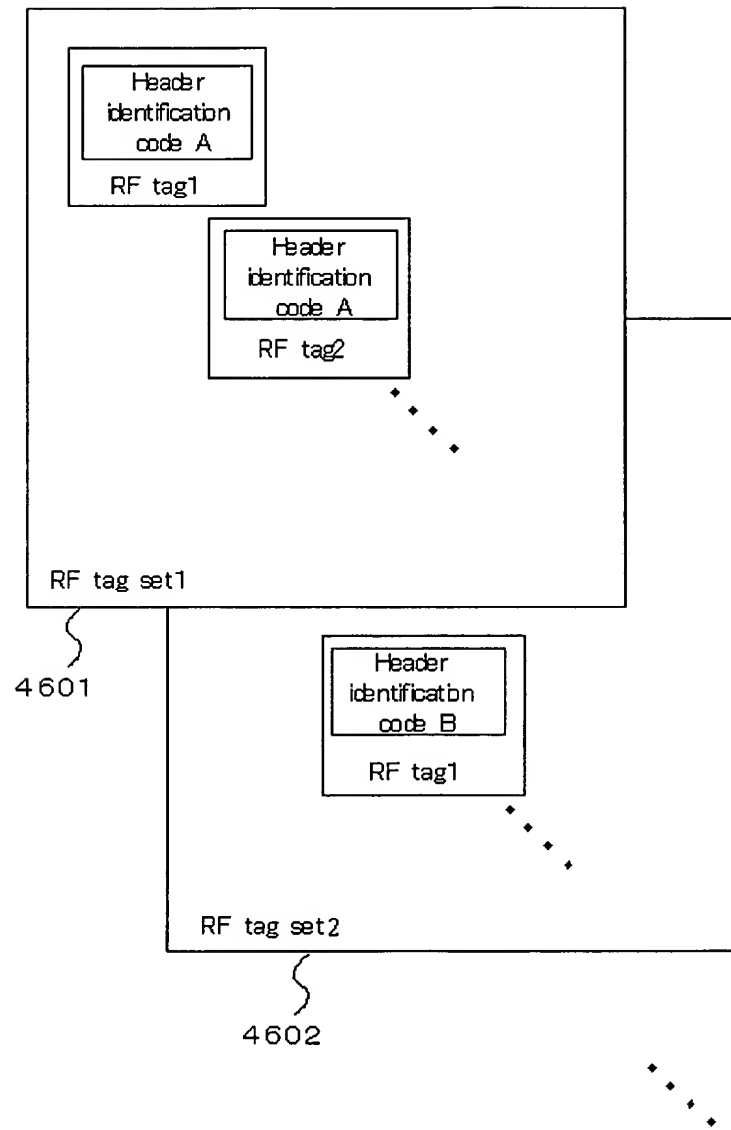


fig47

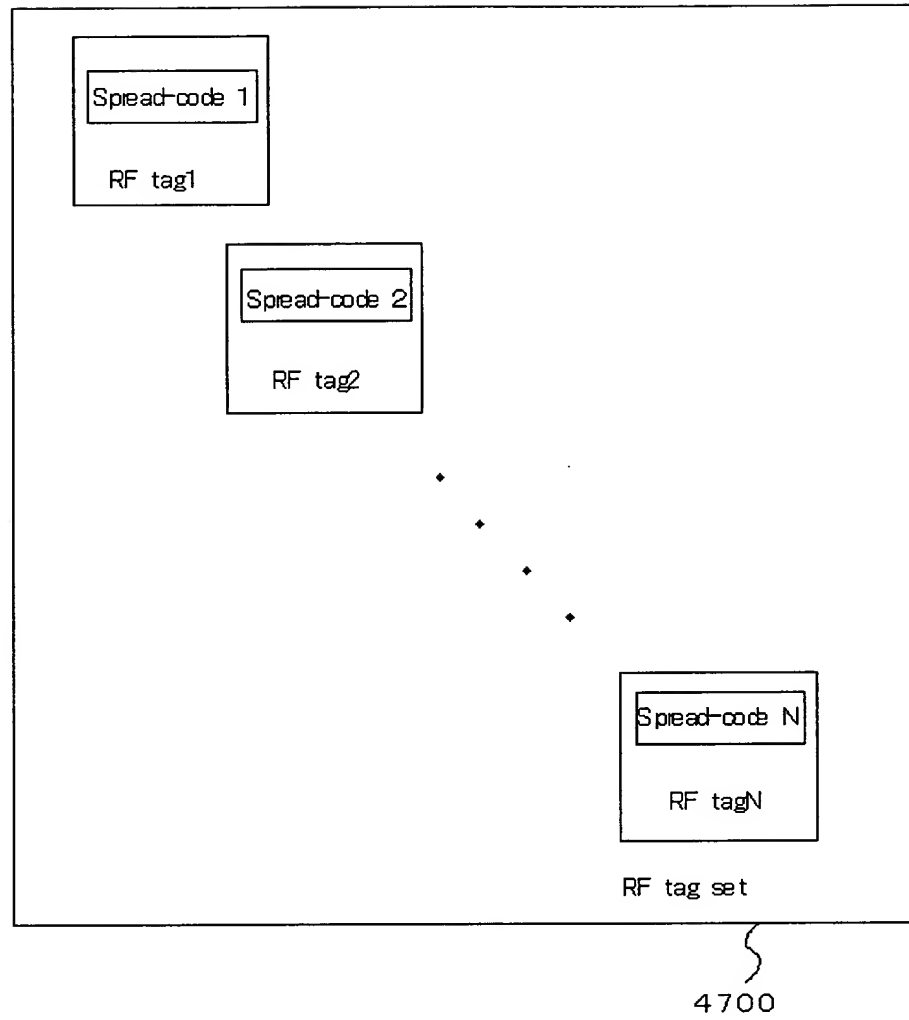
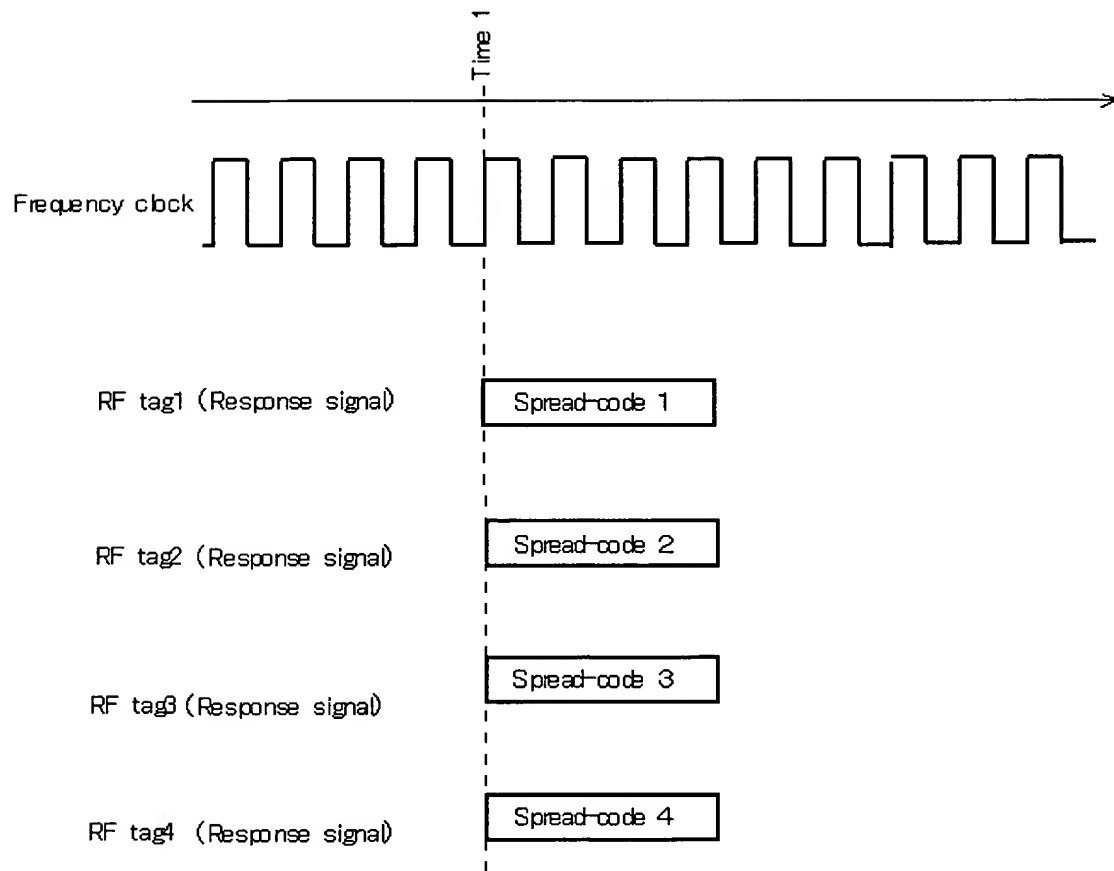


fig48



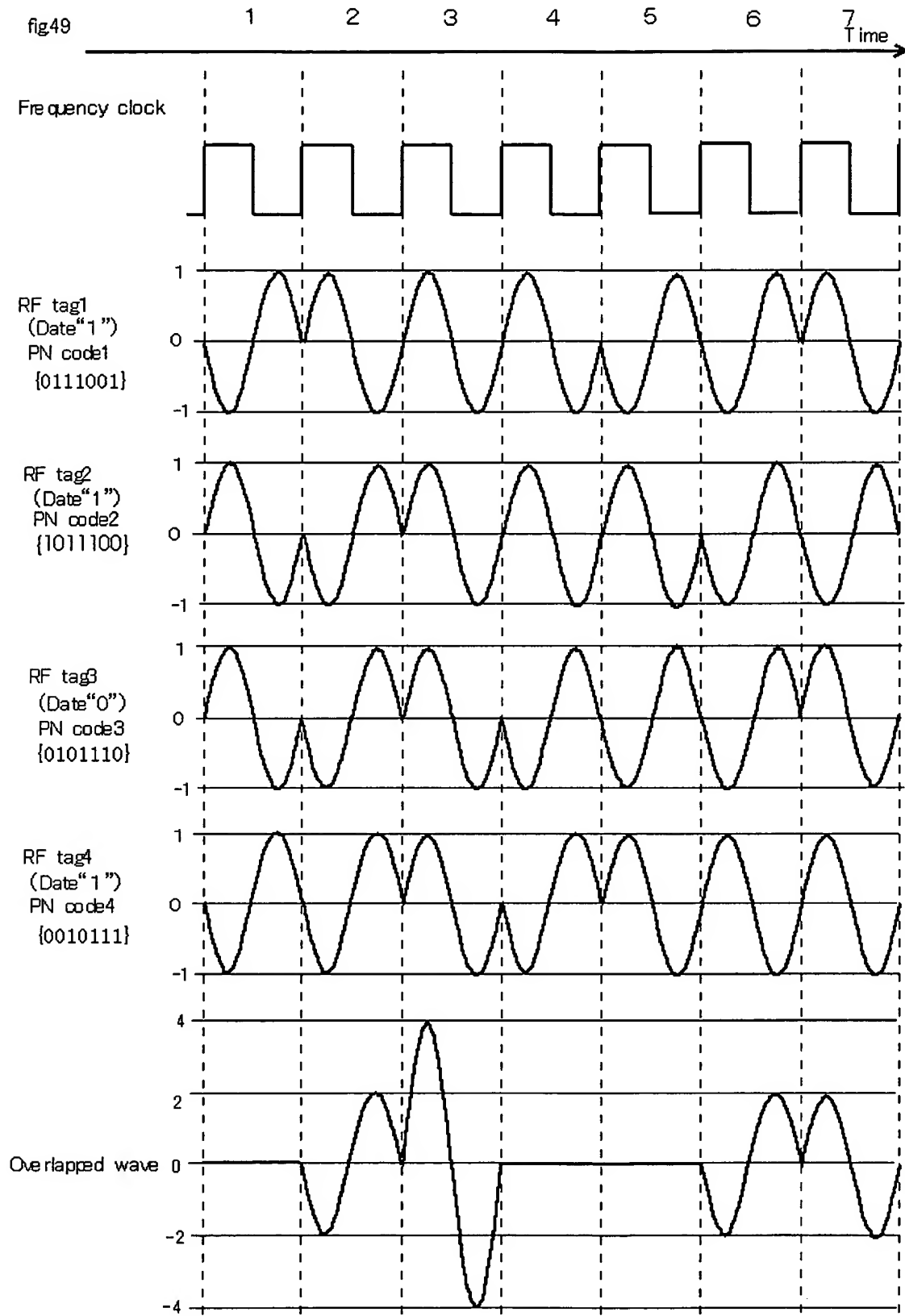


fig50

$$\text{DLn:Code correlation} = \frac{\vec{\omega} \cdot \vec{\text{PN}}_n}{L}$$

$$\vec{\omega} := \text{Transmitted wave} [0 \ -2 \ +4 \ 0 \ 0 \ -2 \ +2]$$

$\vec{\text{PN}}_n$: Code having correlation

$$\vec{\text{PN}}_1 = [-1 \ +1 \ +1 \ +1 \ -1 \ -1 \ +1]$$

$$\vec{\text{PN}}_2 = [+1 \ -1 \ +1 \ +1 \ +1 \ -1 \ -1]$$

$$\vec{\text{PN}}_3 = [+1 \ -1 \ +1 \ -1 \ -1 \ -1 \ +1]$$

$$\vec{\text{PN}}_4 = [-1 \ -1 \ +1 \ -1 \ +1 \ +1 \ +1]$$

L: Code length = 7

$$\text{DL1} = \frac{+6}{7} \rightarrow "1"$$

$$\text{DL2} = \frac{+6}{7} \rightarrow "1"$$

$$\text{DL3} = \frac{-10}{7} \rightarrow "0"$$

$$\text{DL4} = \frac{+6}{7} \rightarrow "1"$$

fig51

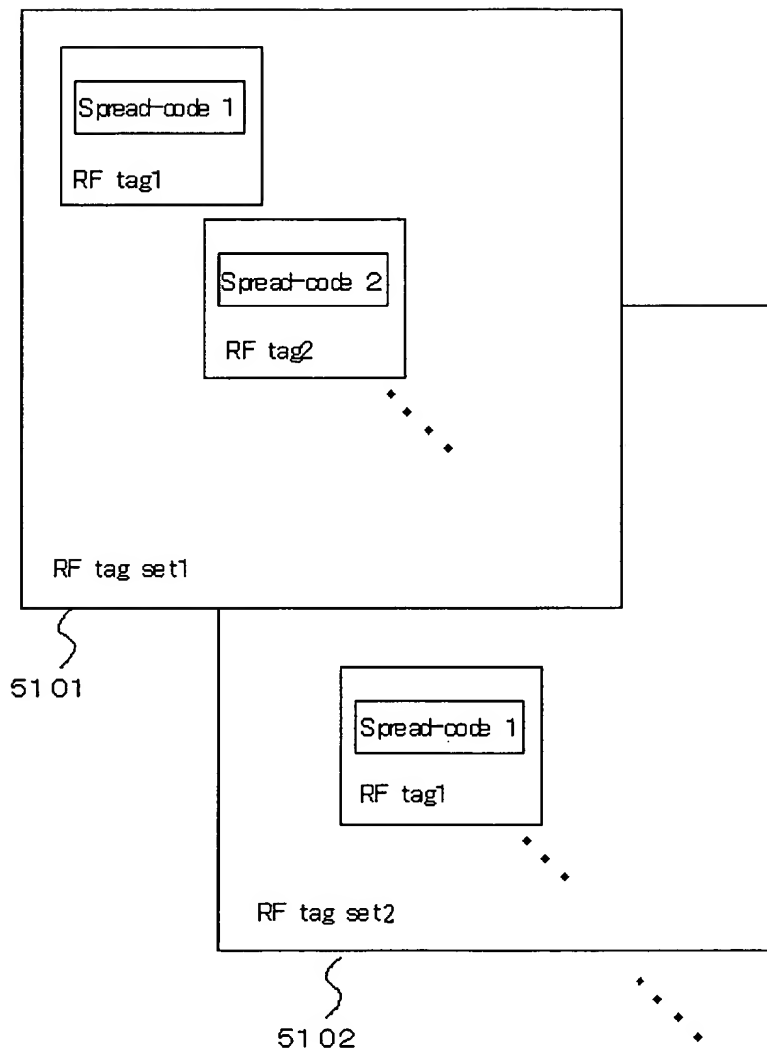


fig52

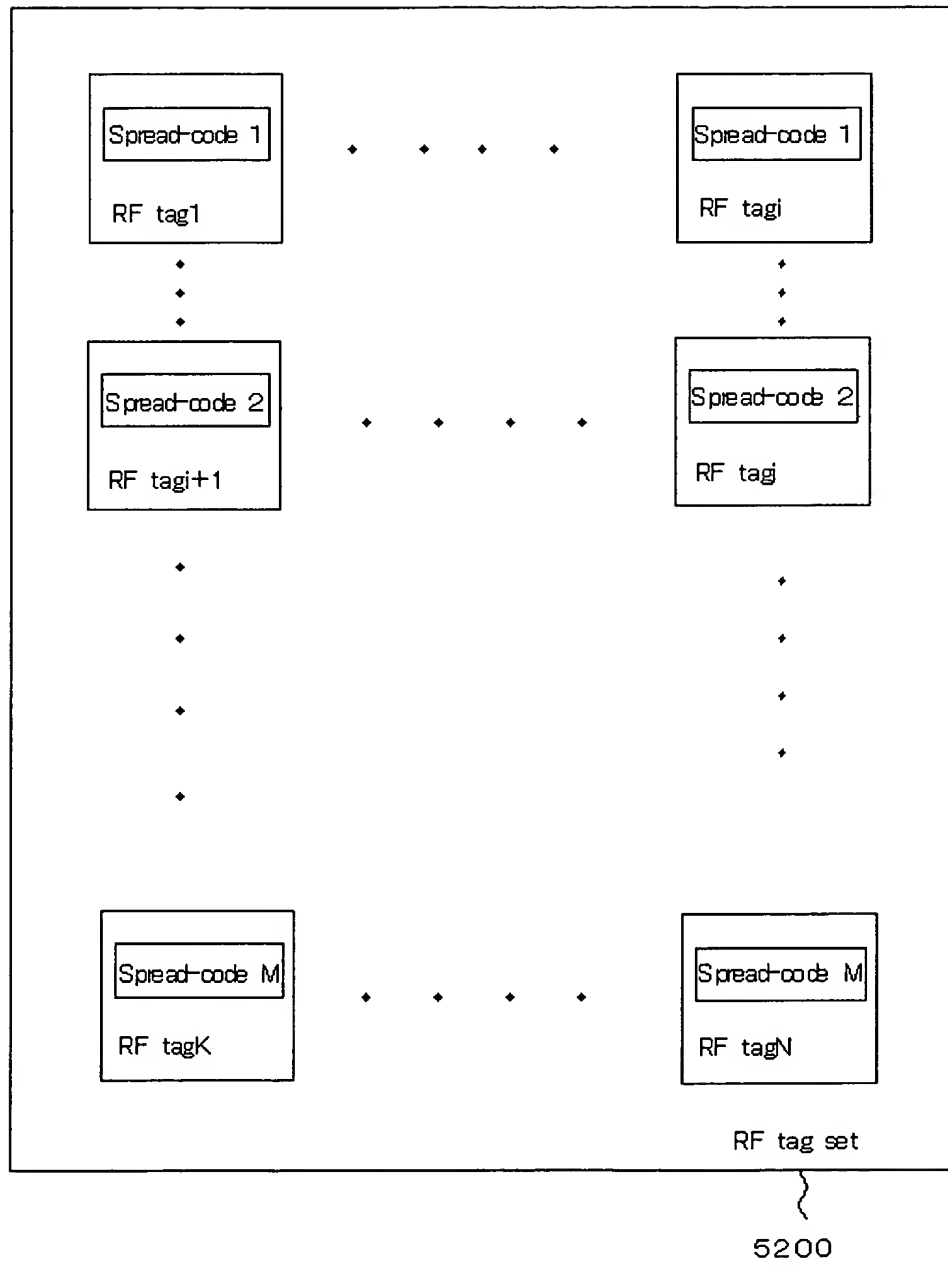


fig53

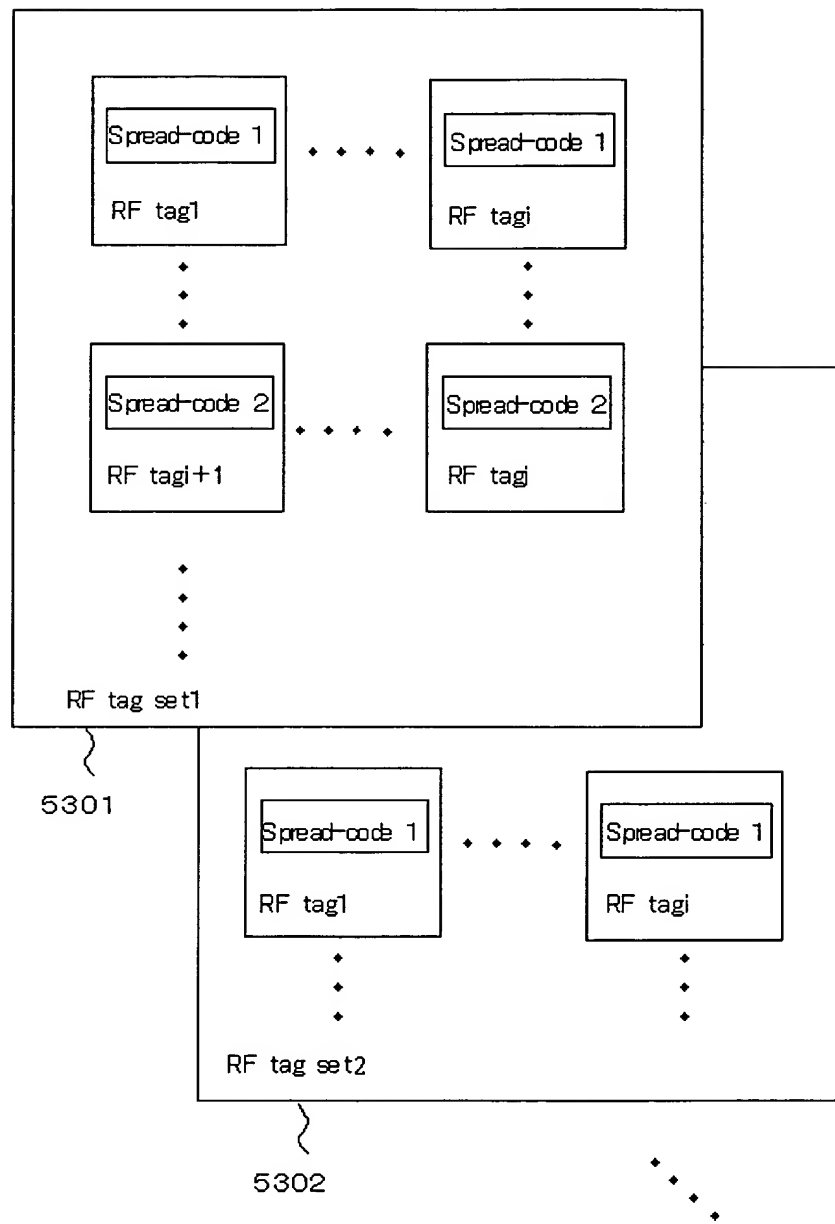


fig54

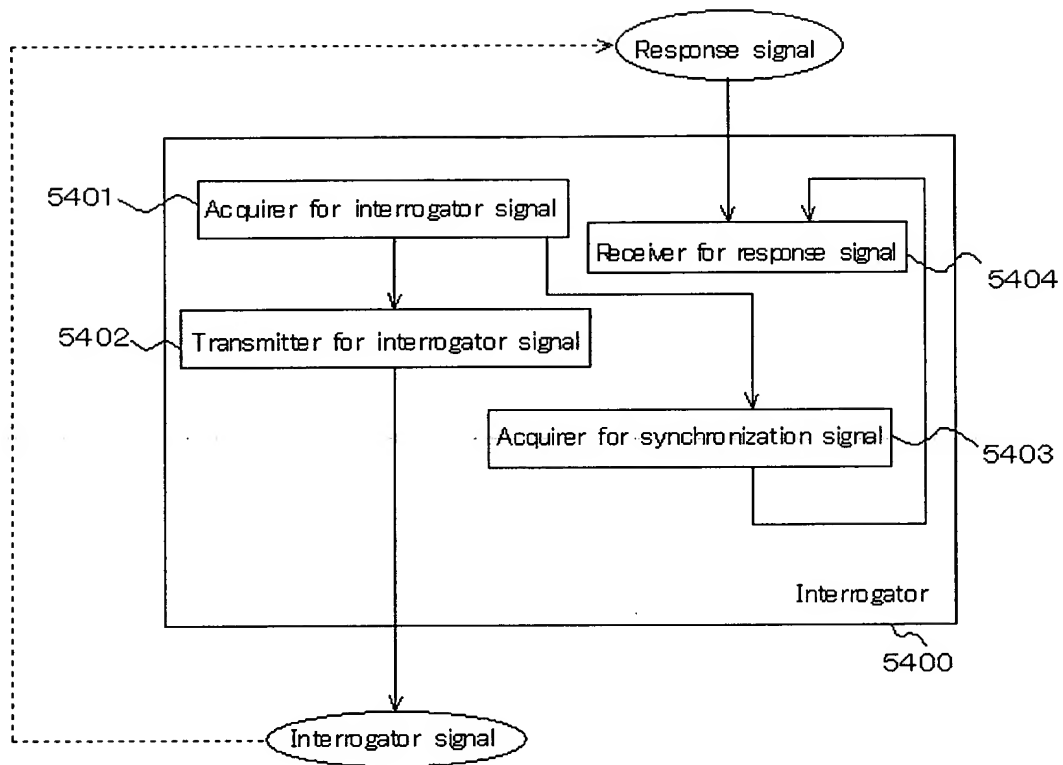


fig55

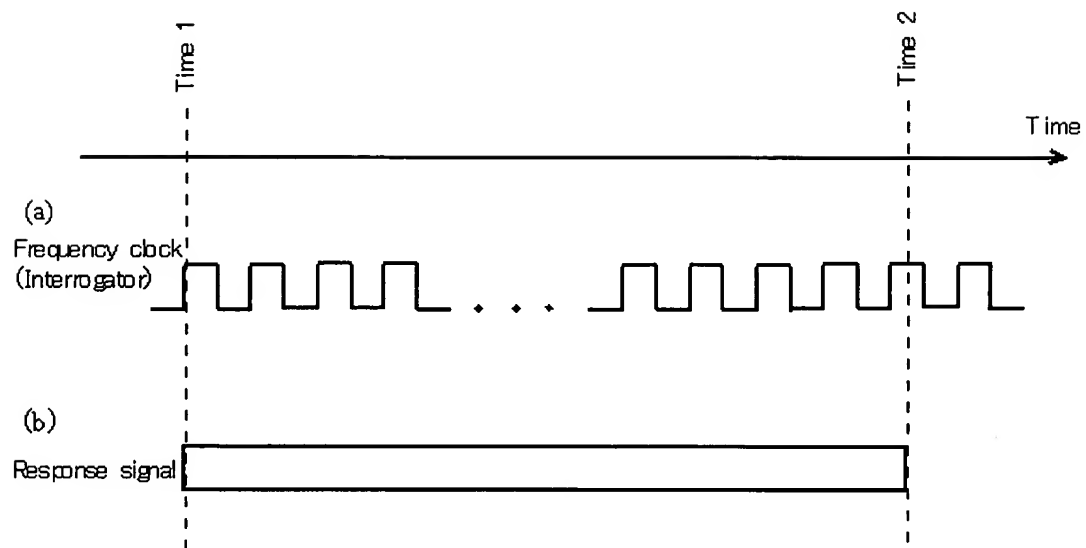


fig56

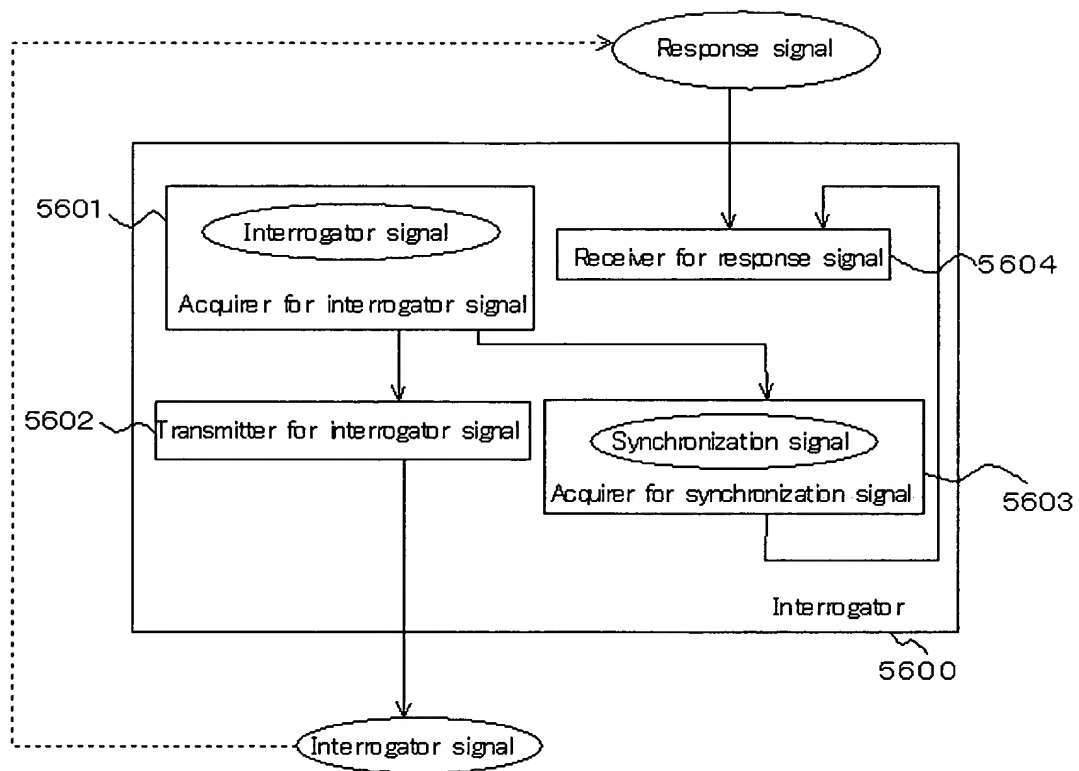


fig57

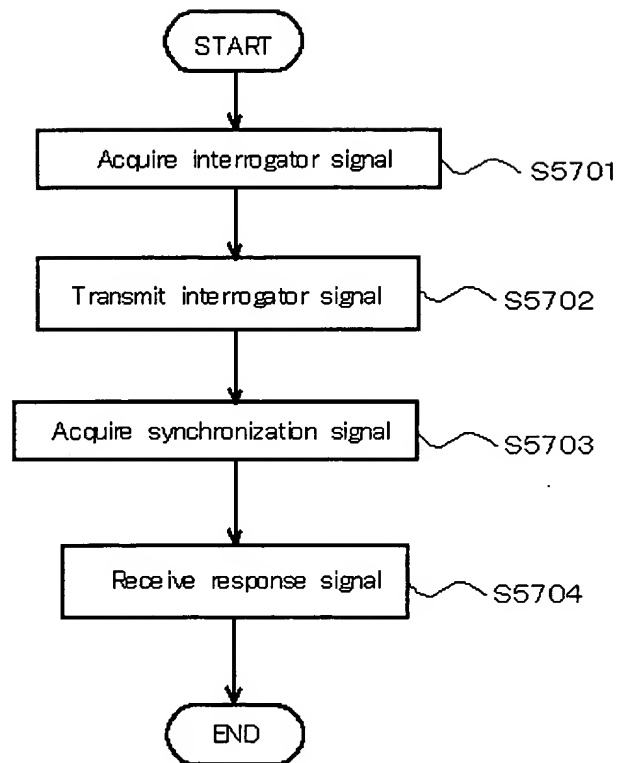


fig58

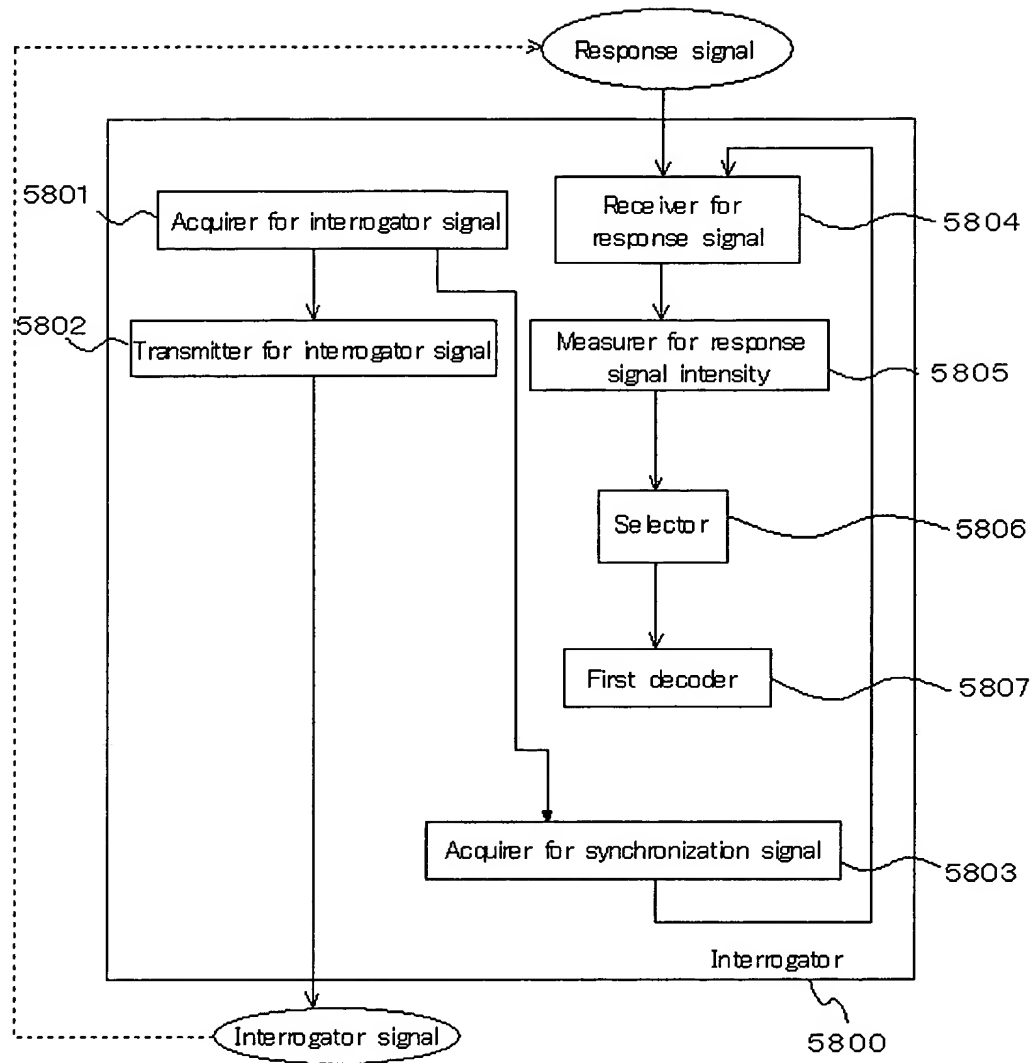


fig59

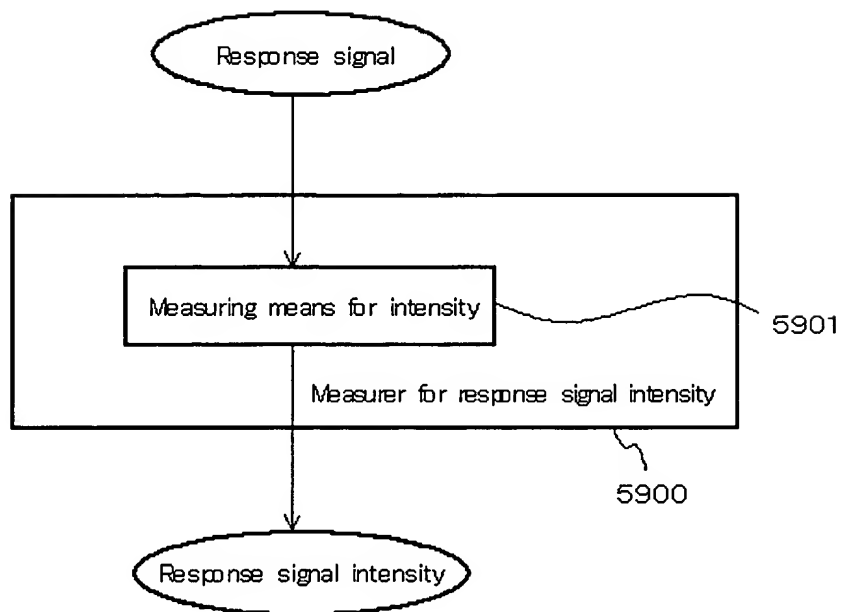


fig60

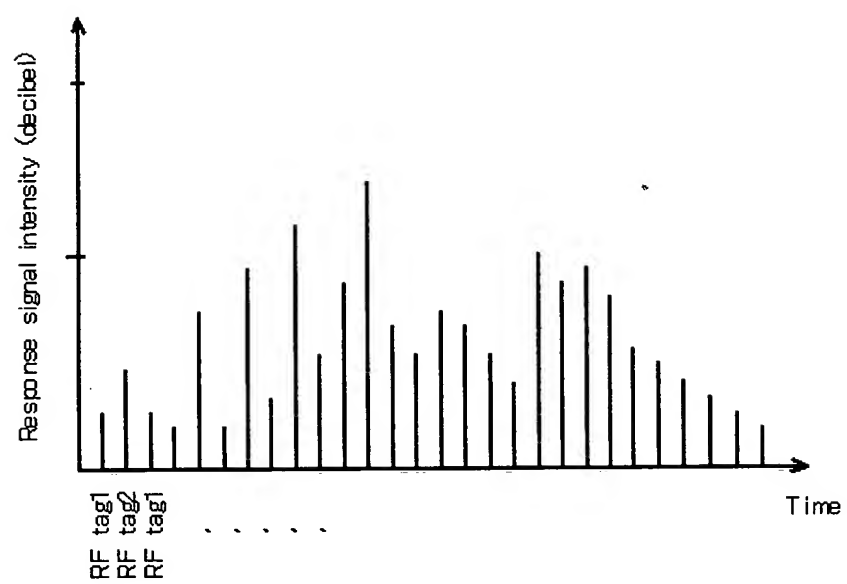


fig61

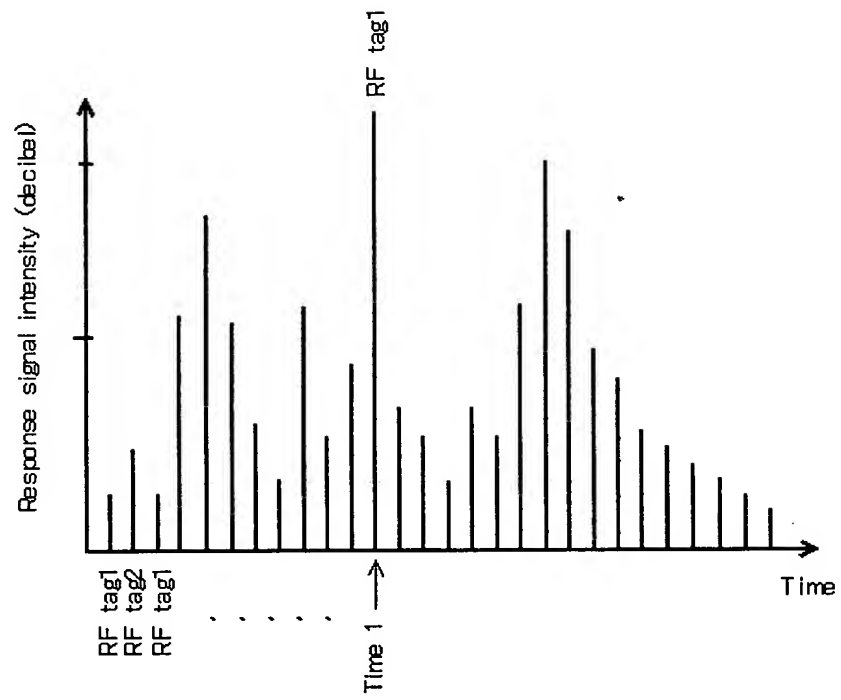


fig62

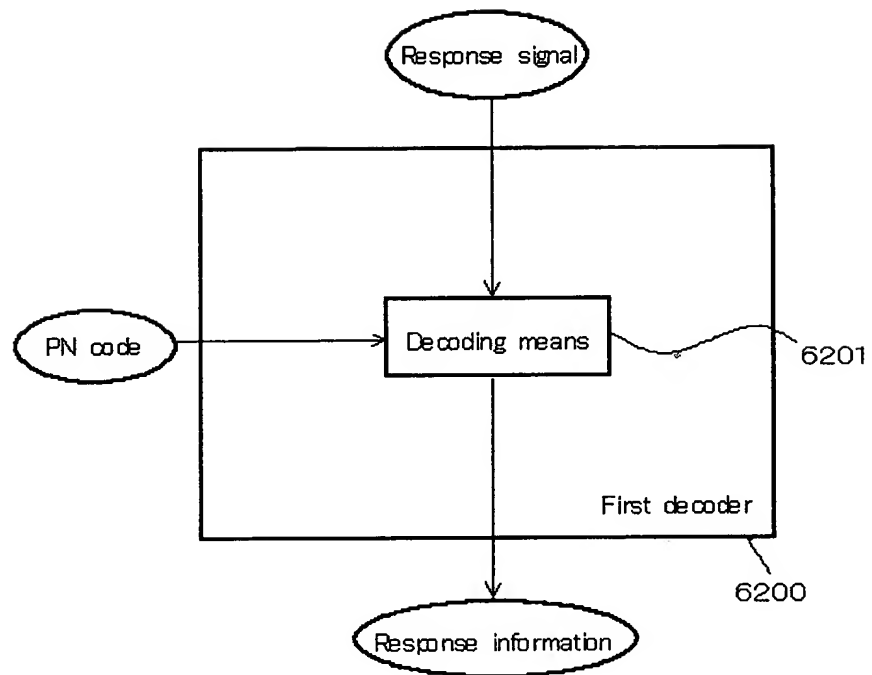


fig63

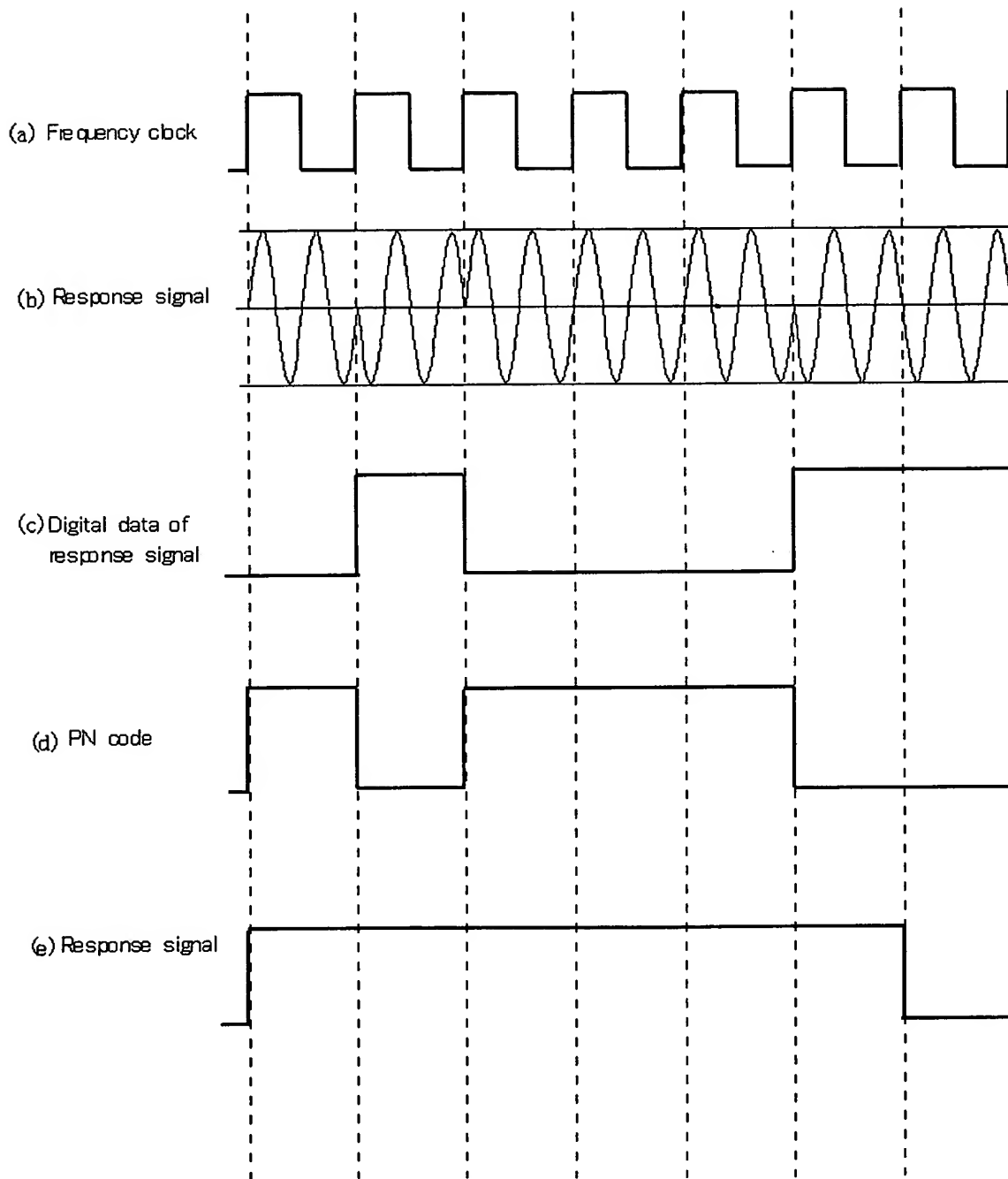


fig64

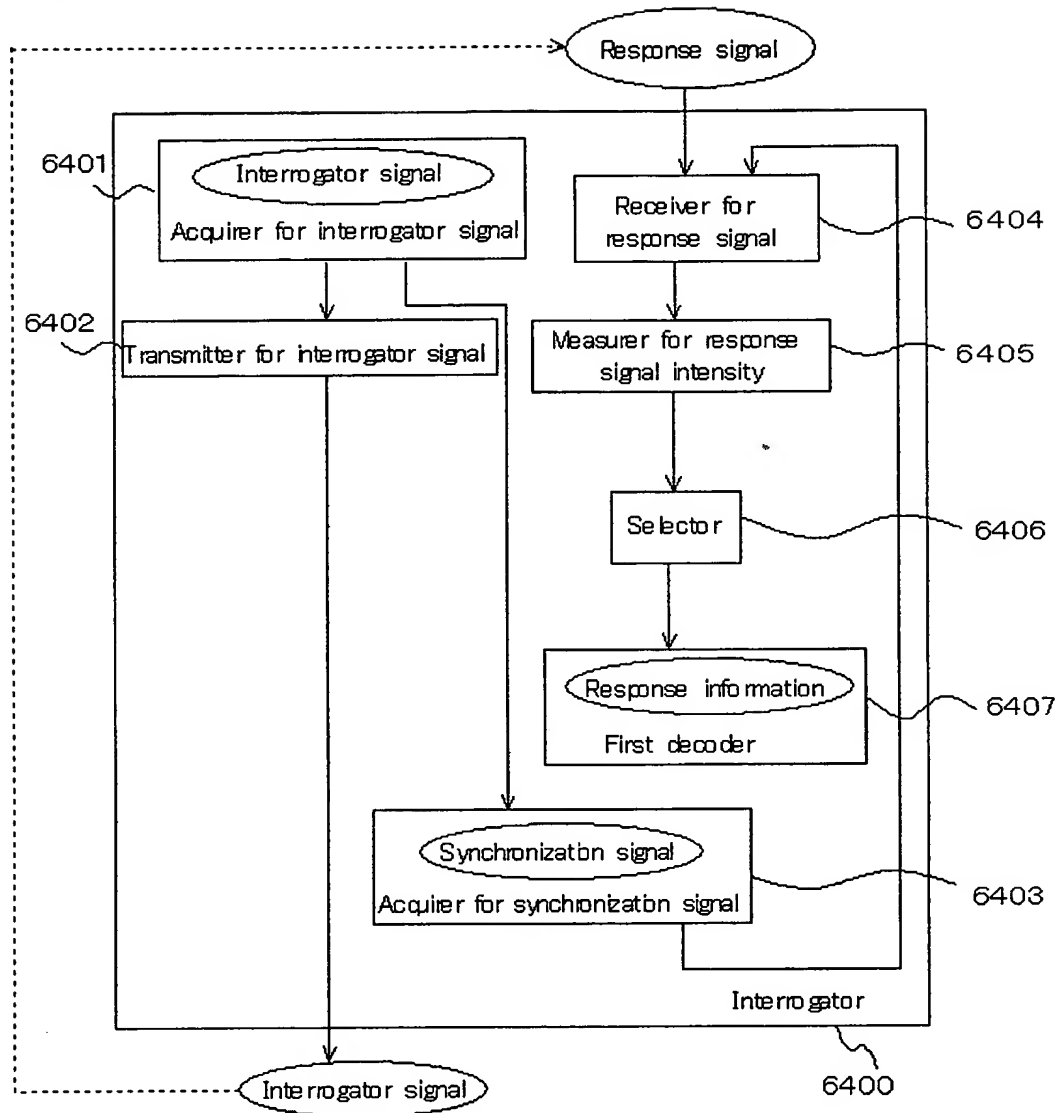


fig65

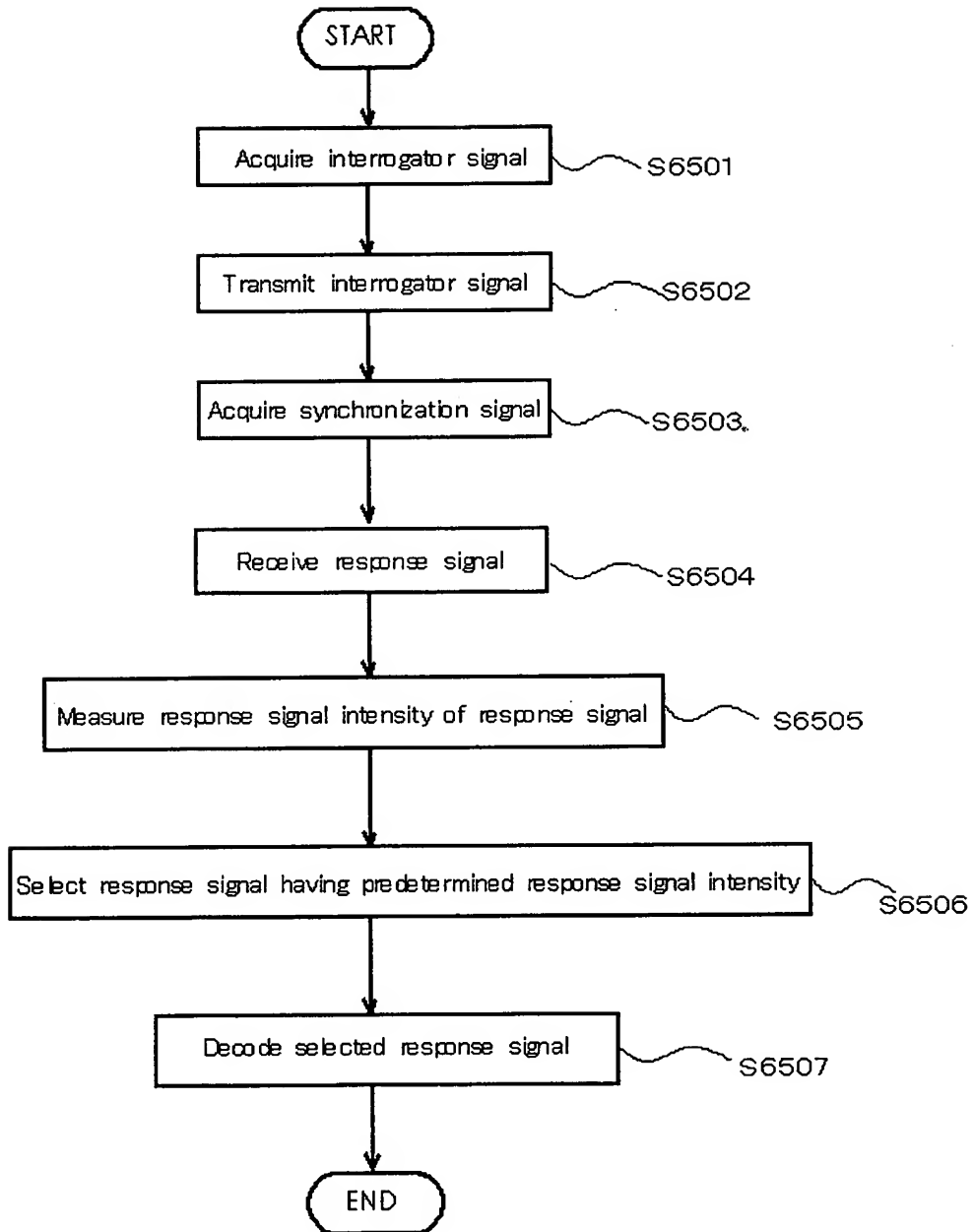


fig66

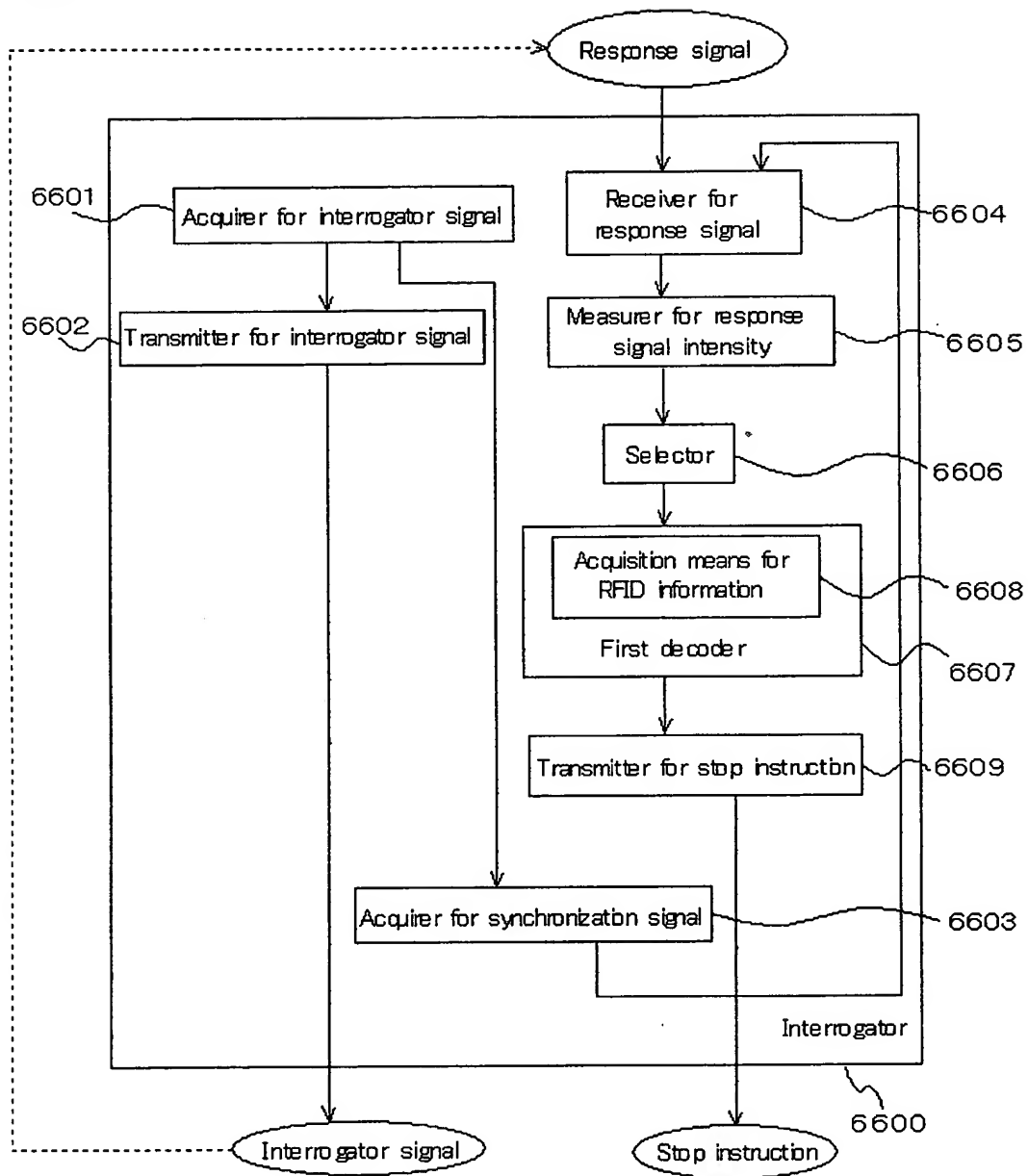


fig67

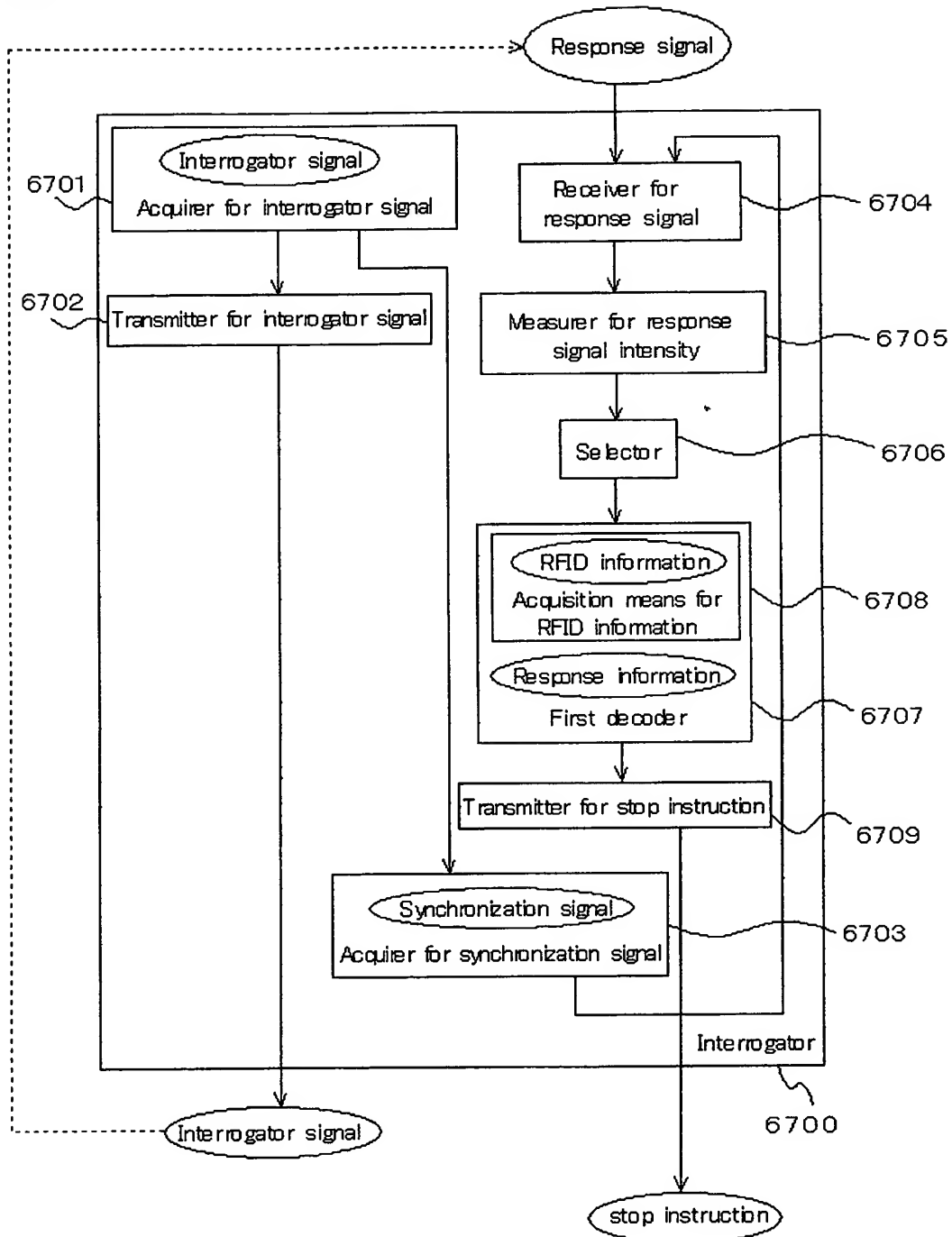


fig68

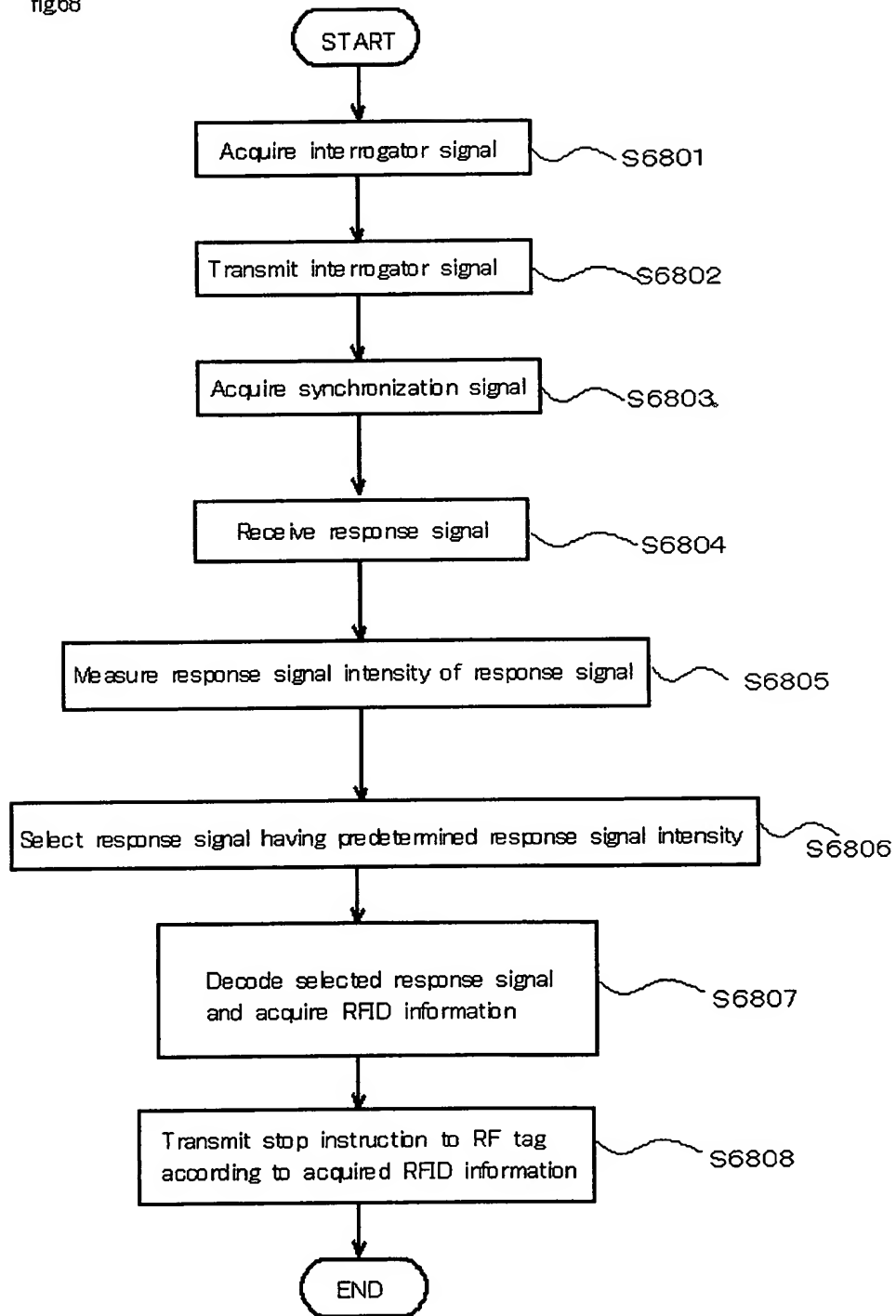


fig69

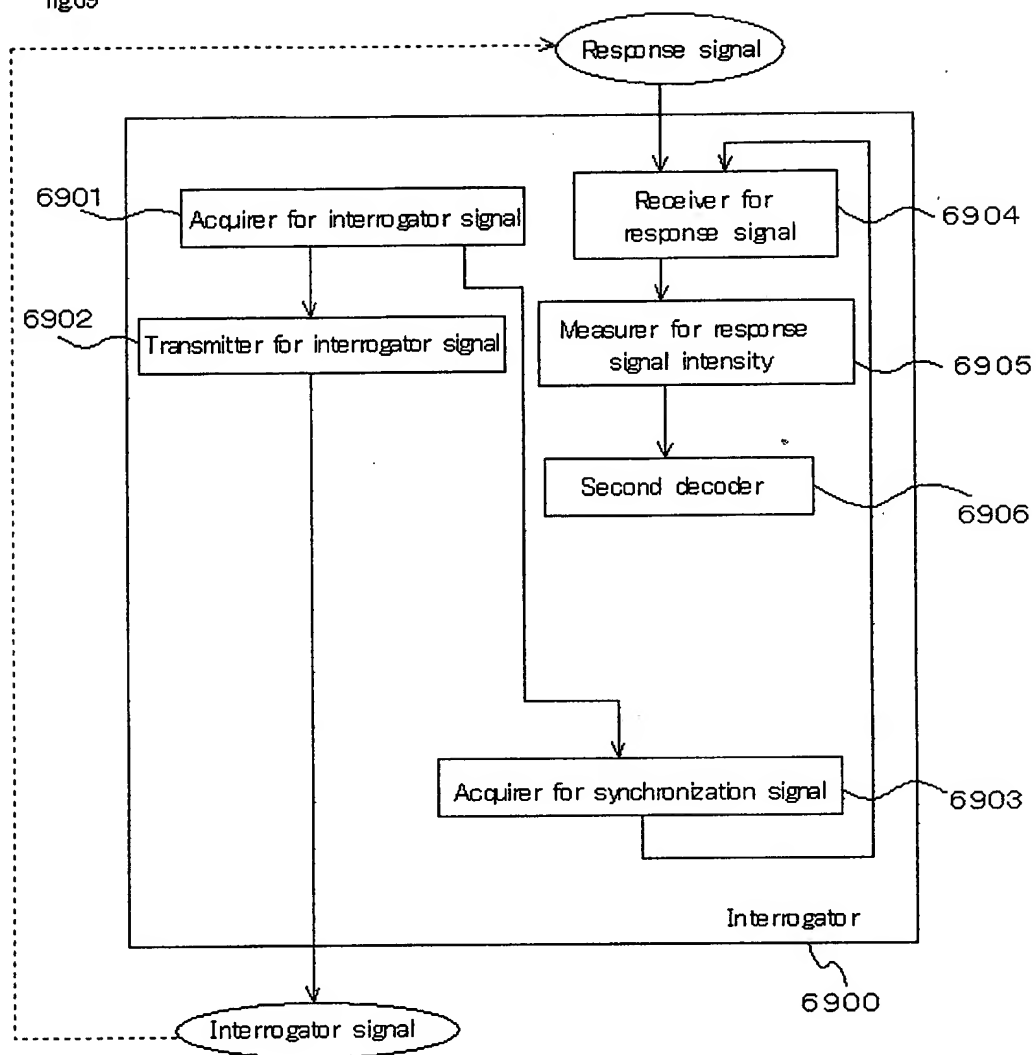


fig70

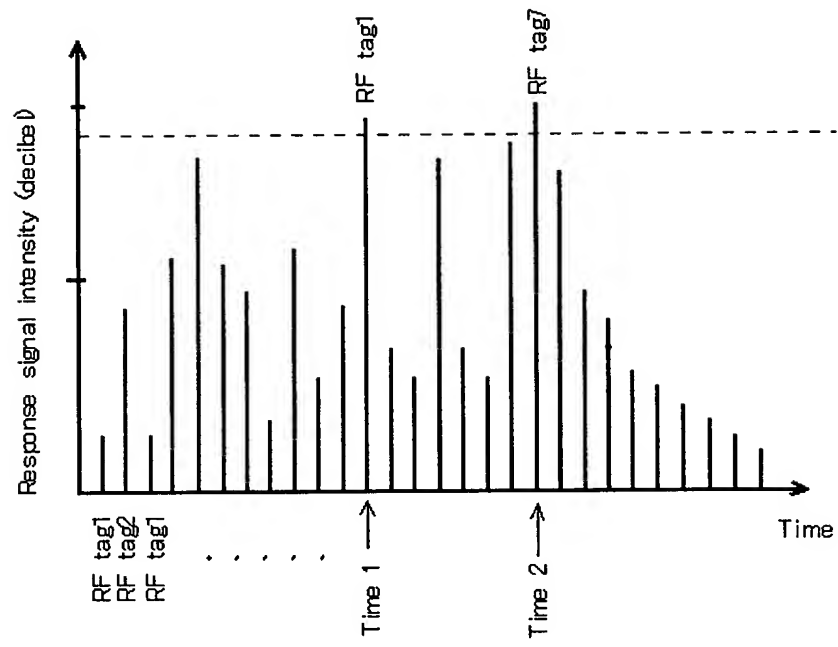


fig71

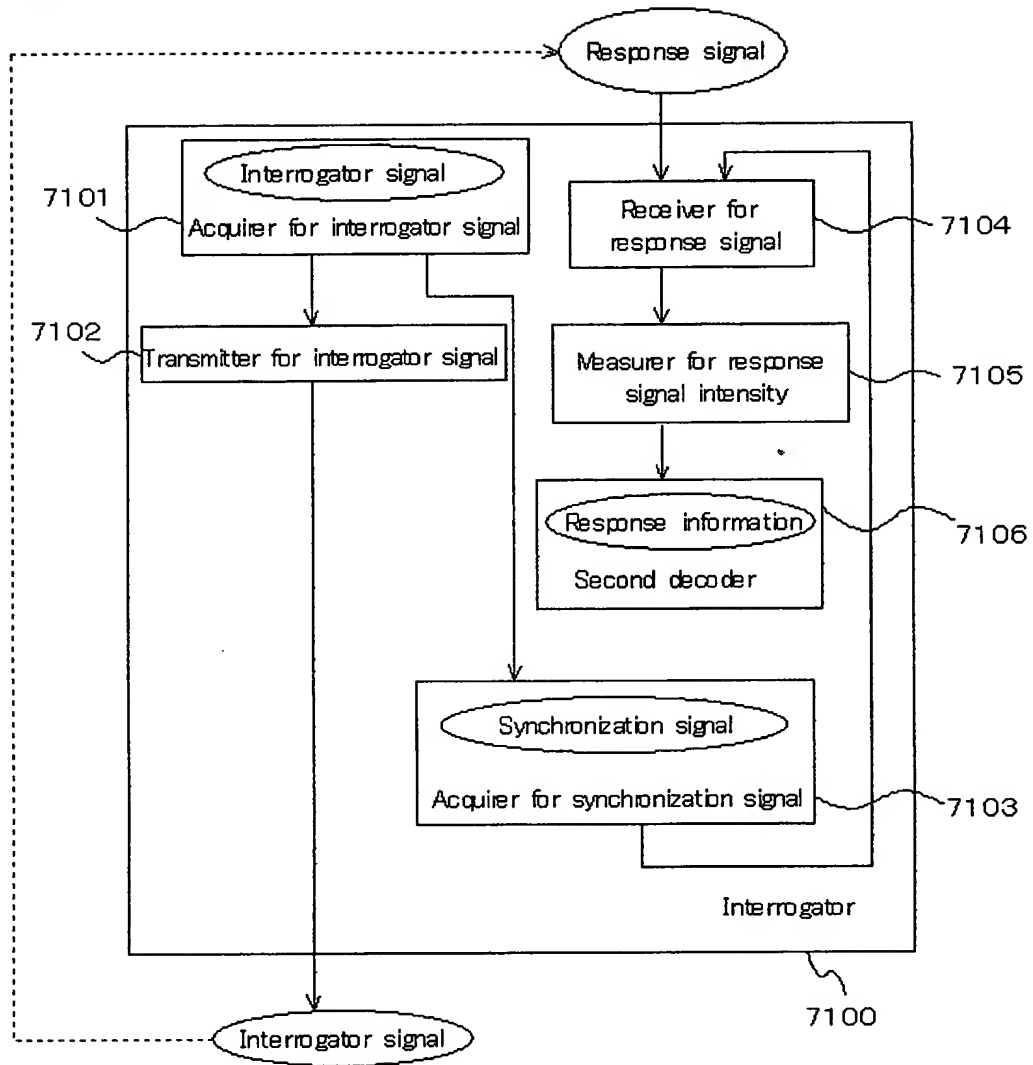


fig72

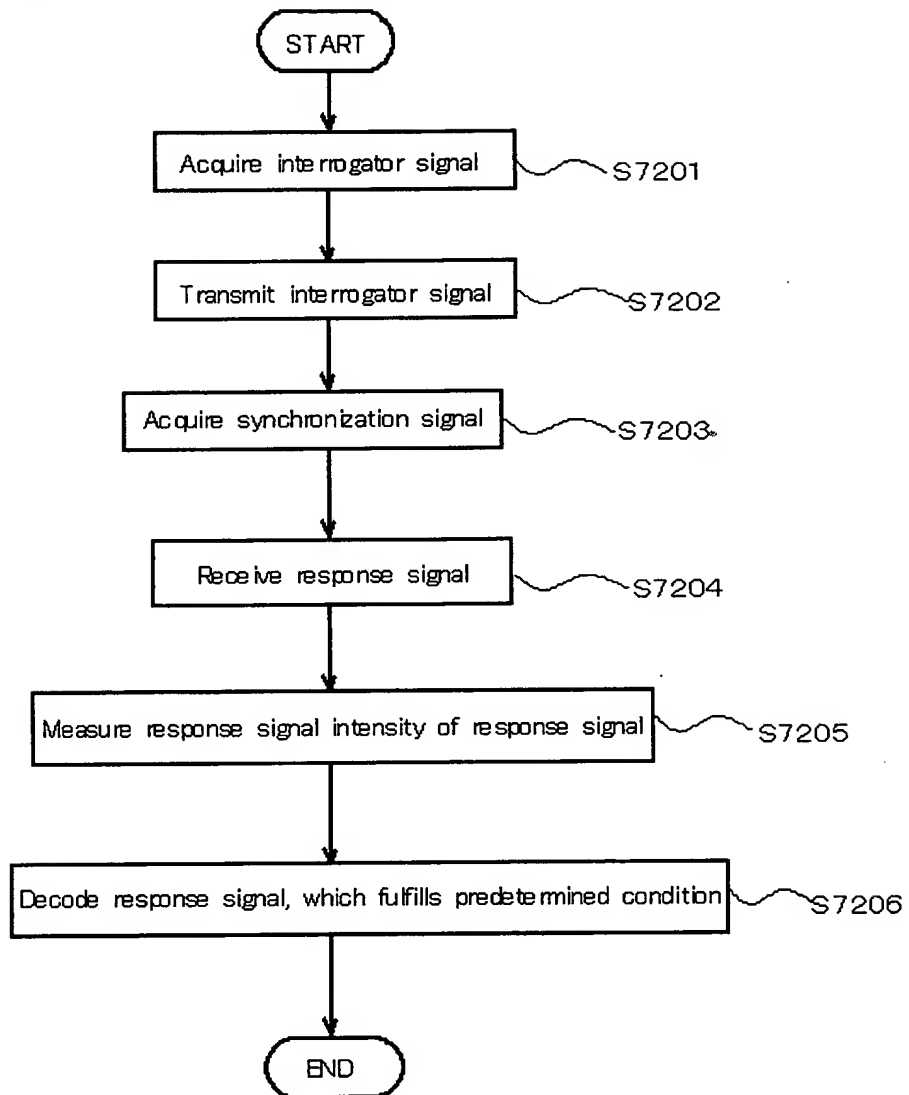


fig.73

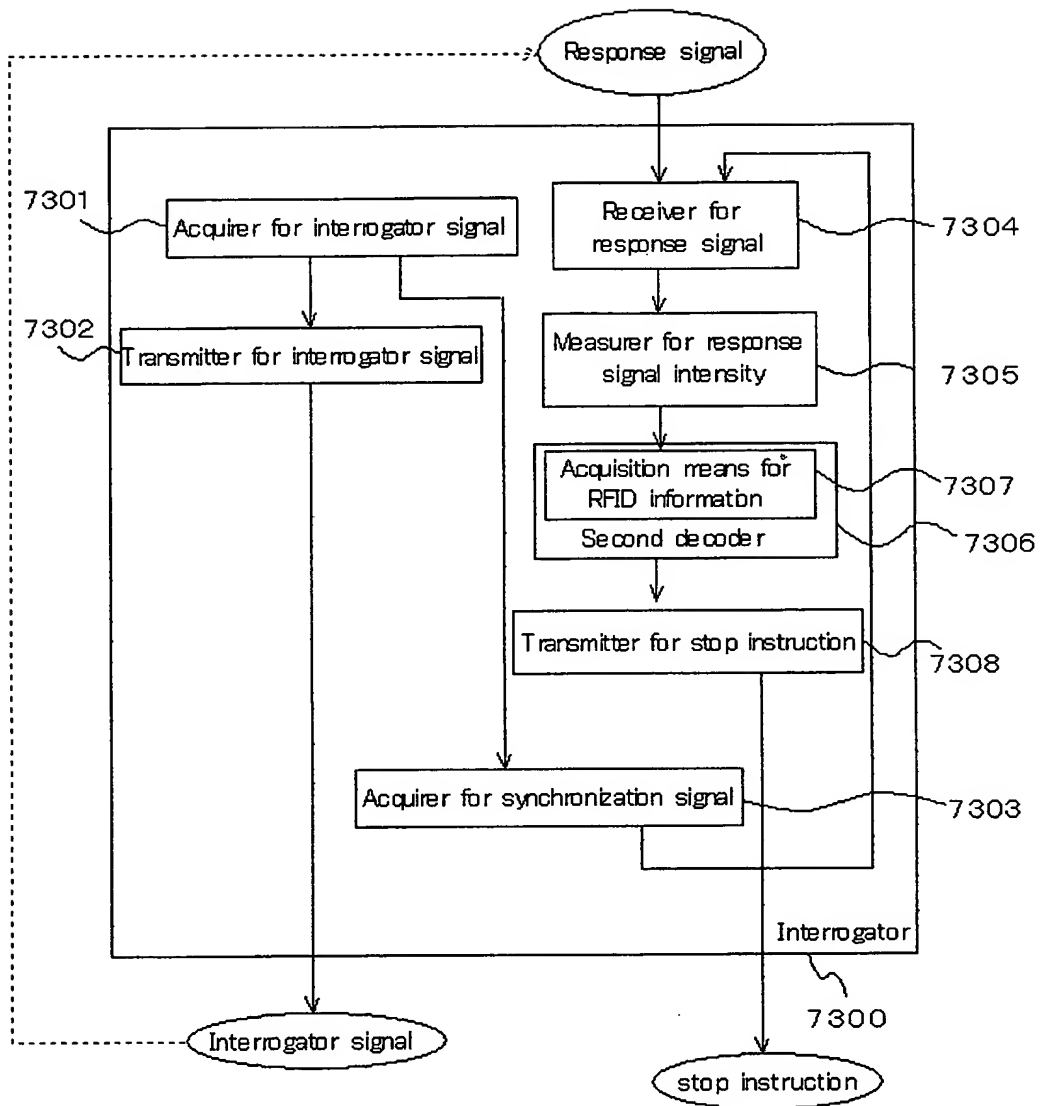


fig 74

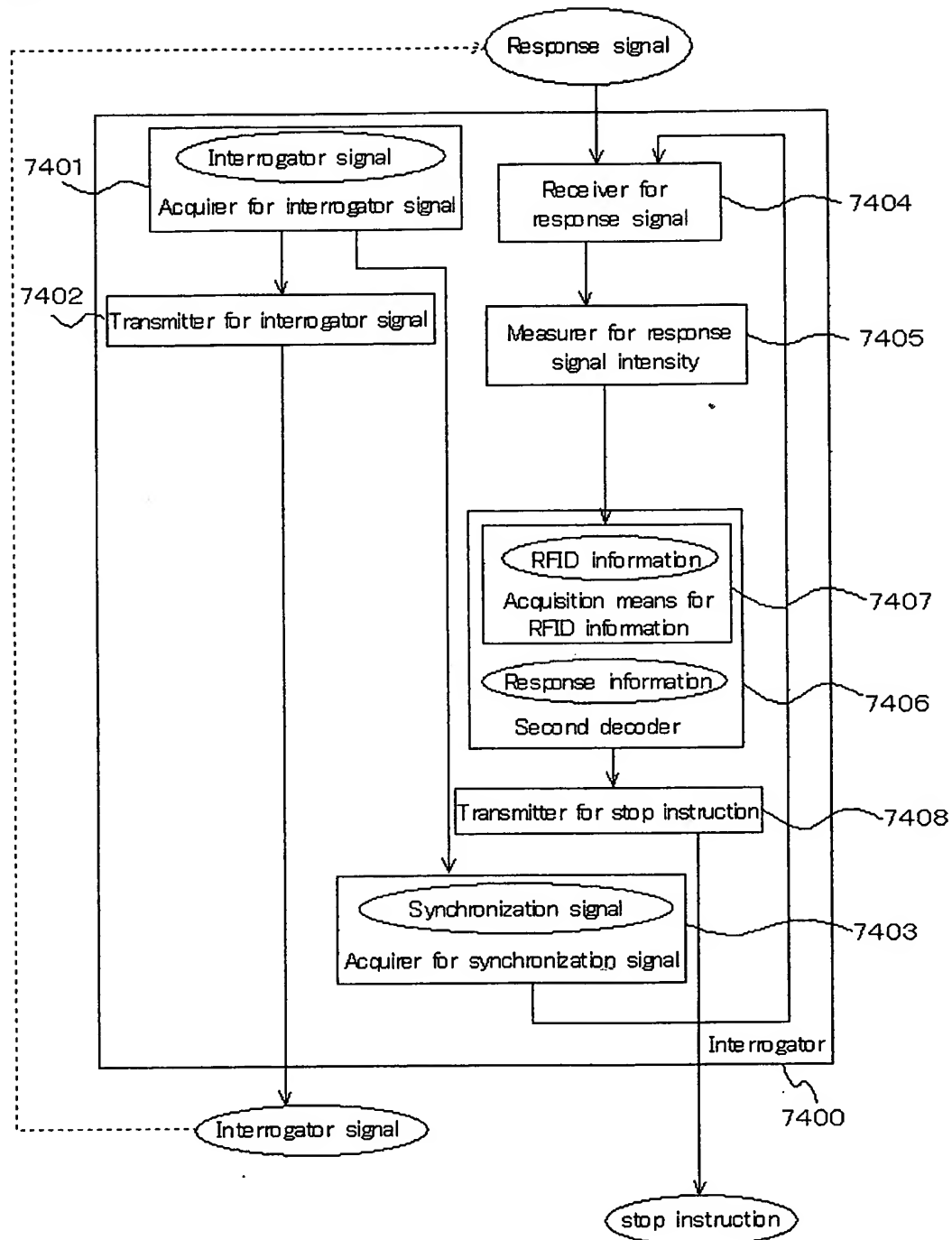


fig 75

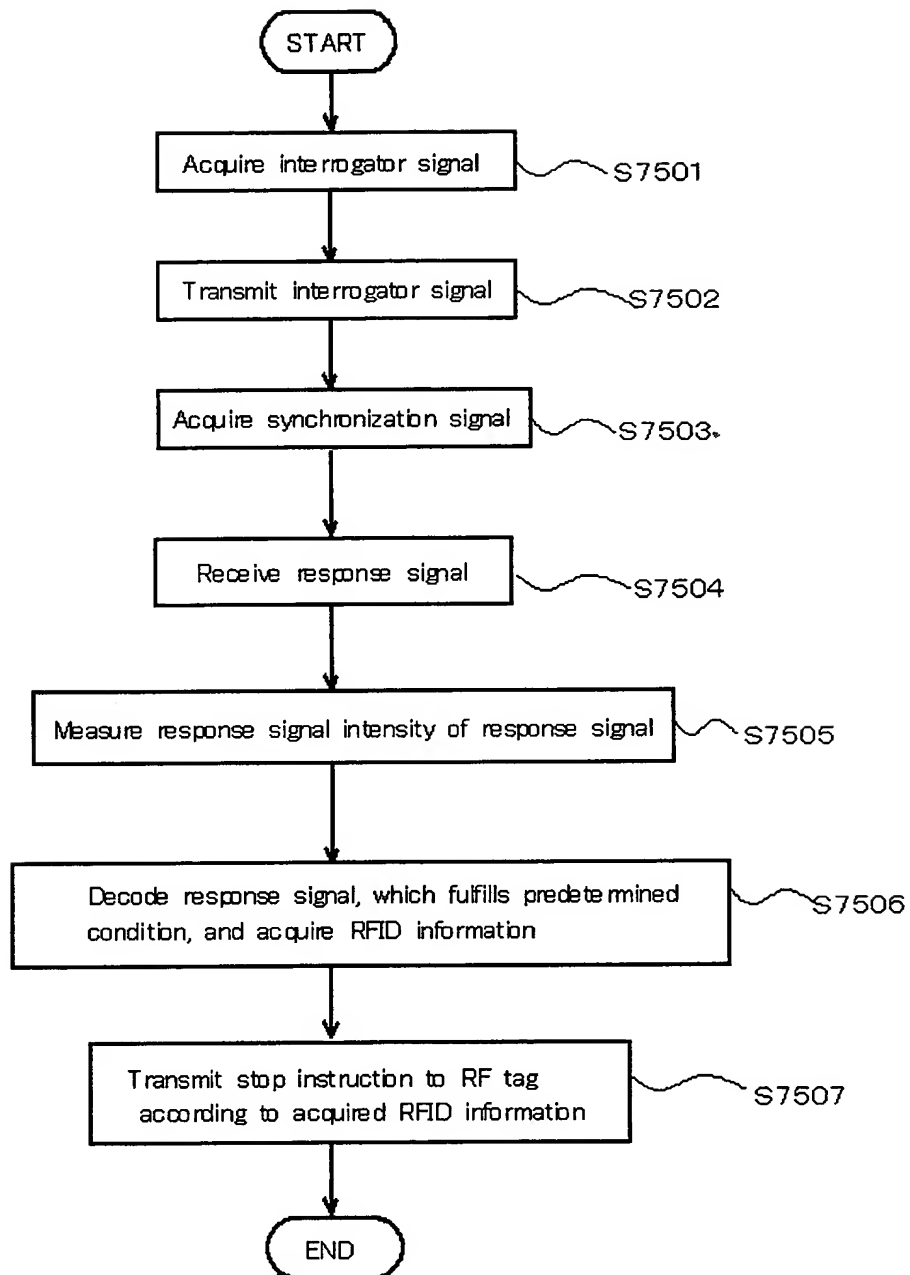


fig.76

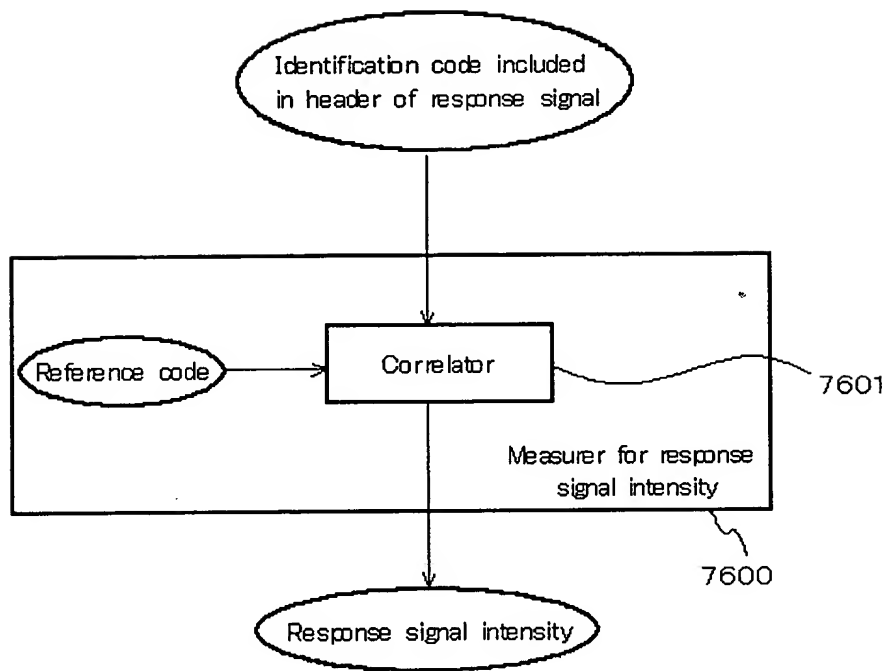


fig77

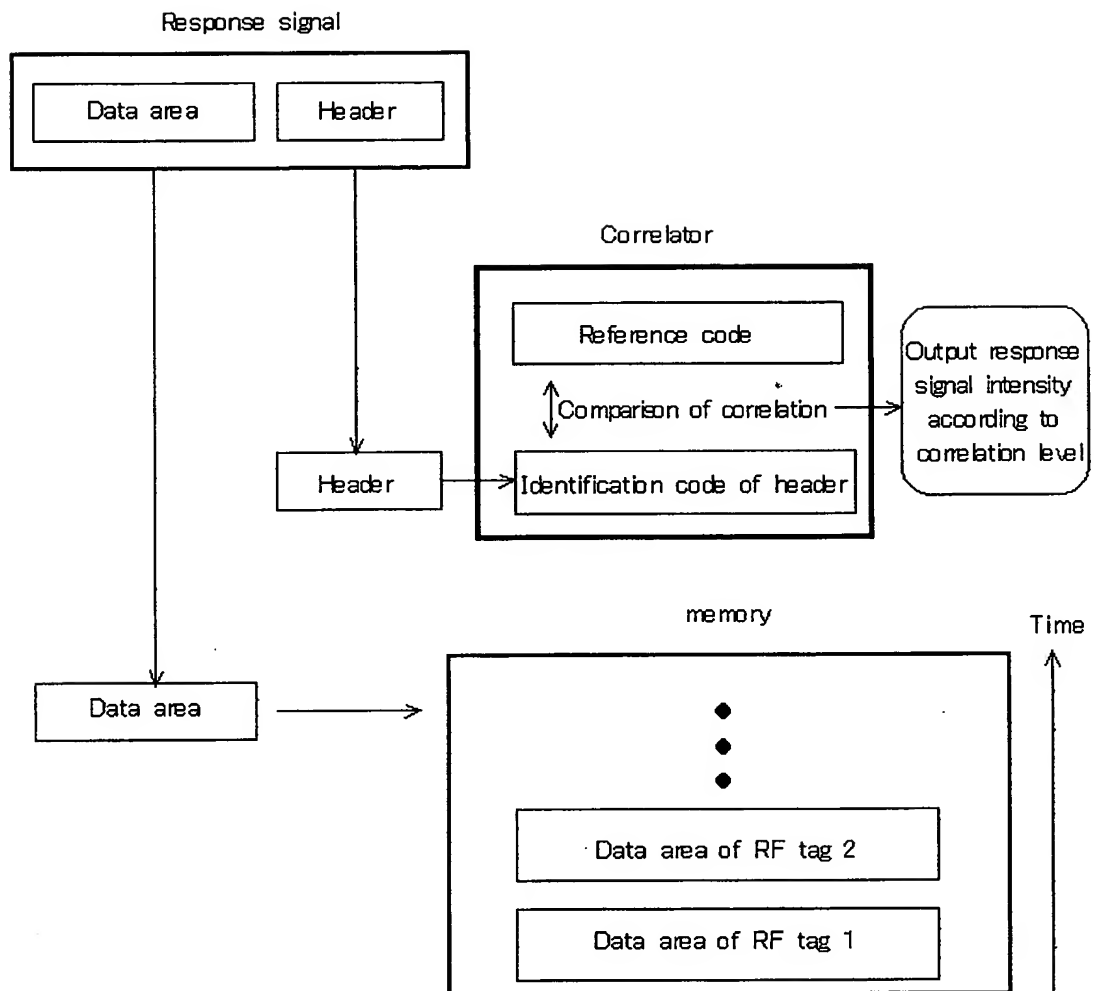


fig.78

(Step0: Time0)

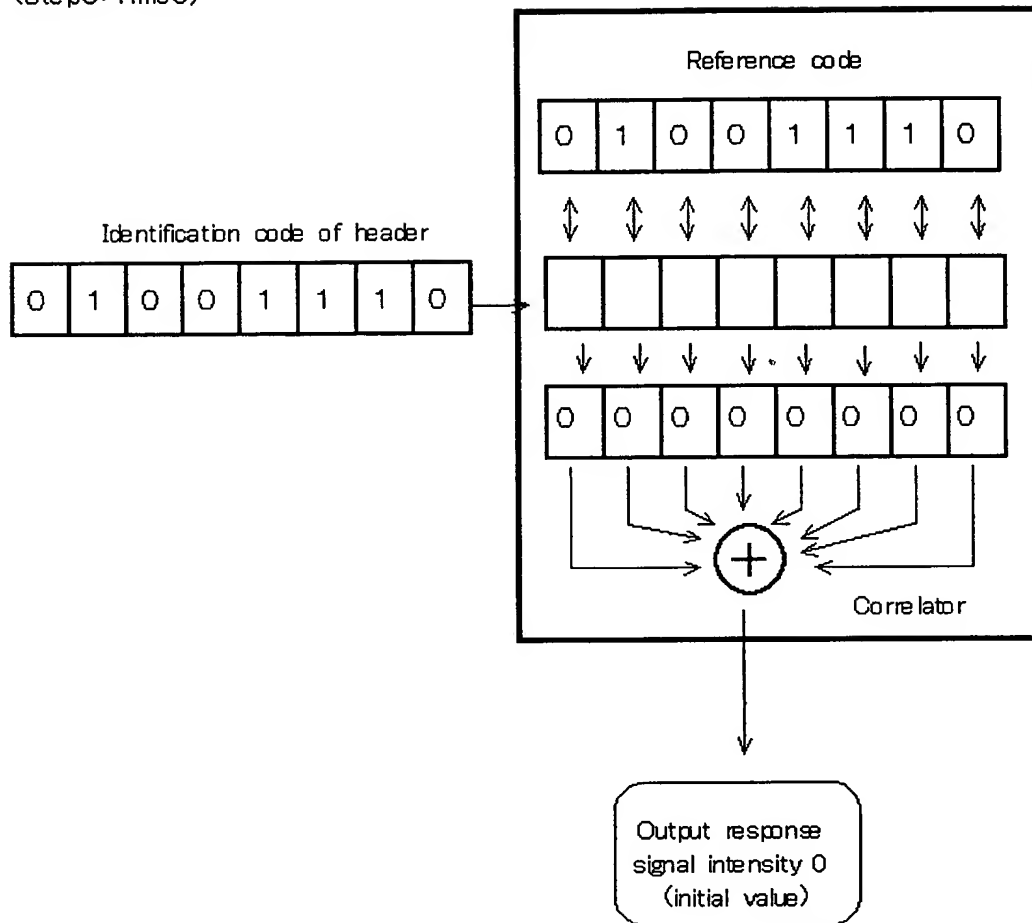


fig79

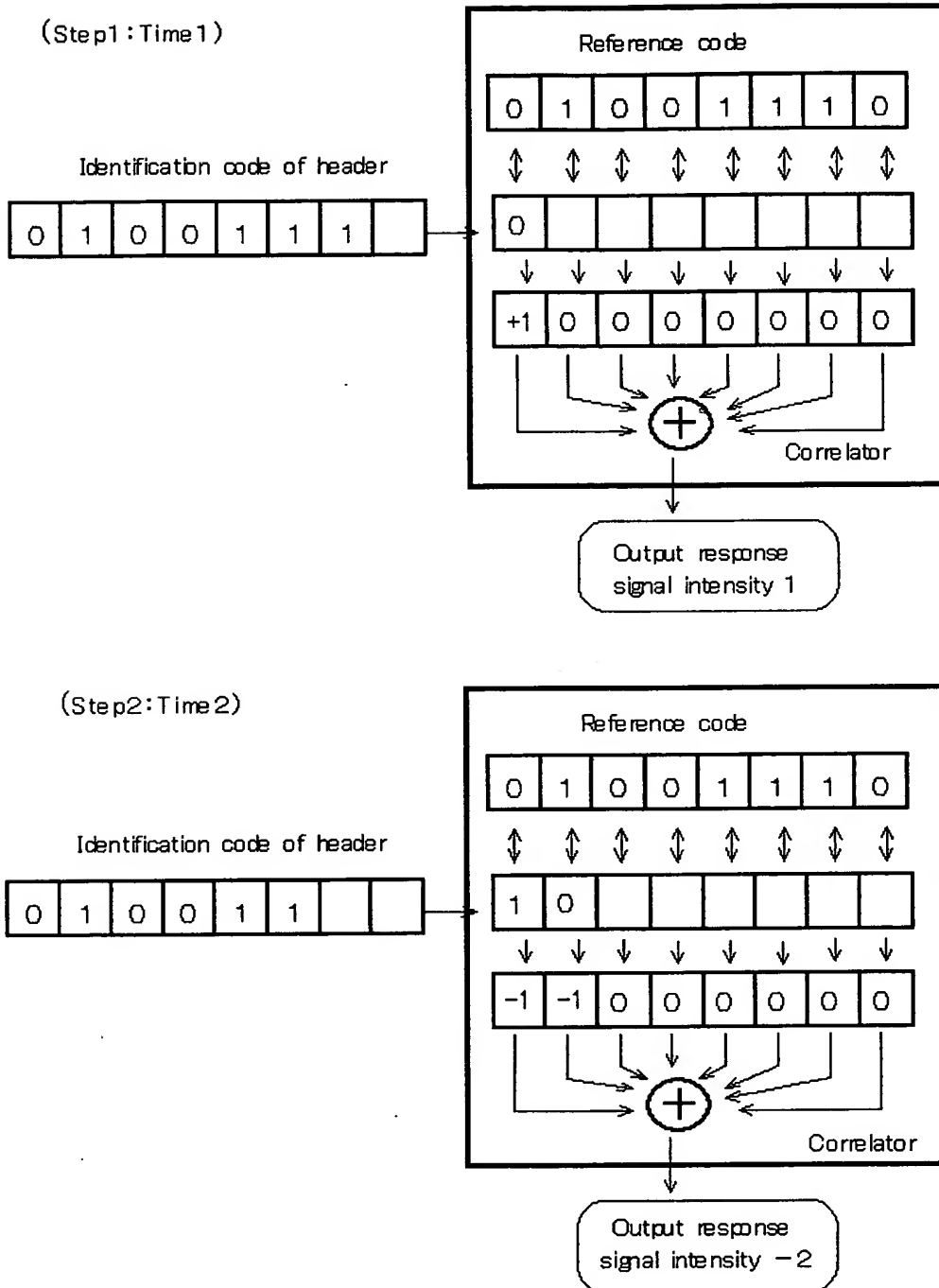


fig80

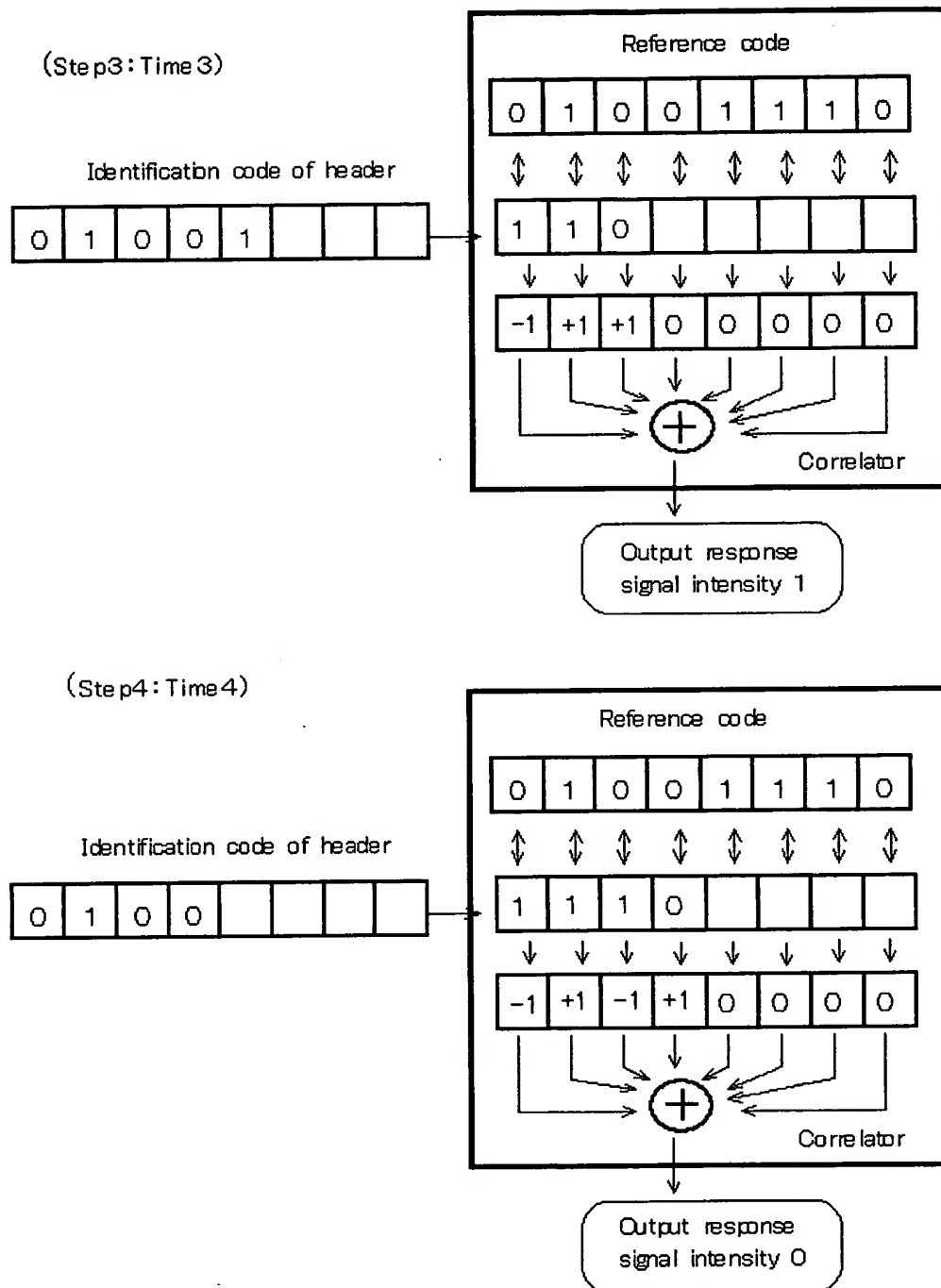
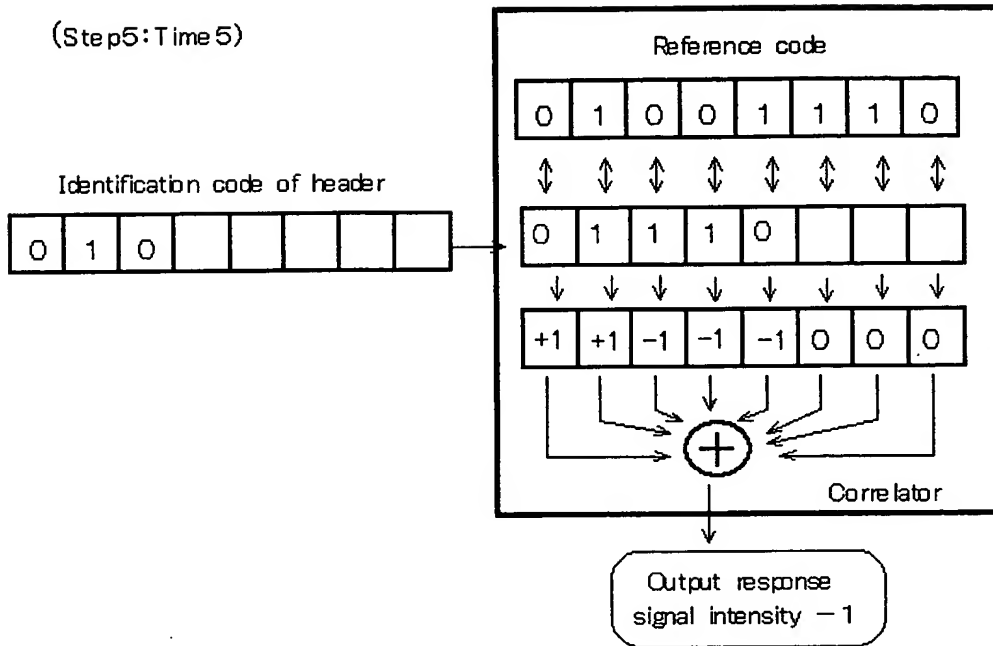


fig81

(Step5: Time 5)



(Step6: Time 6)

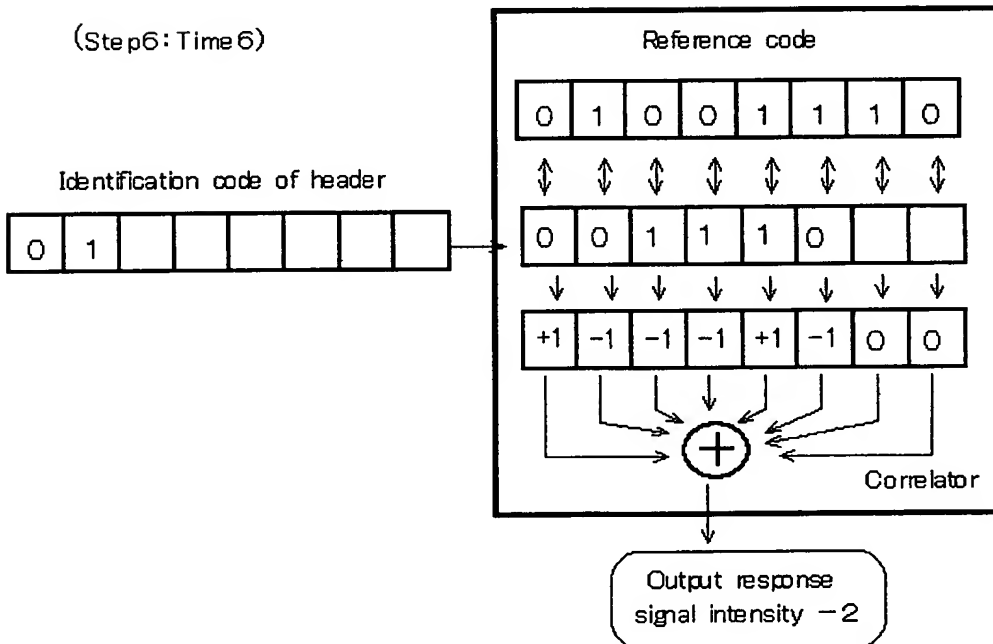
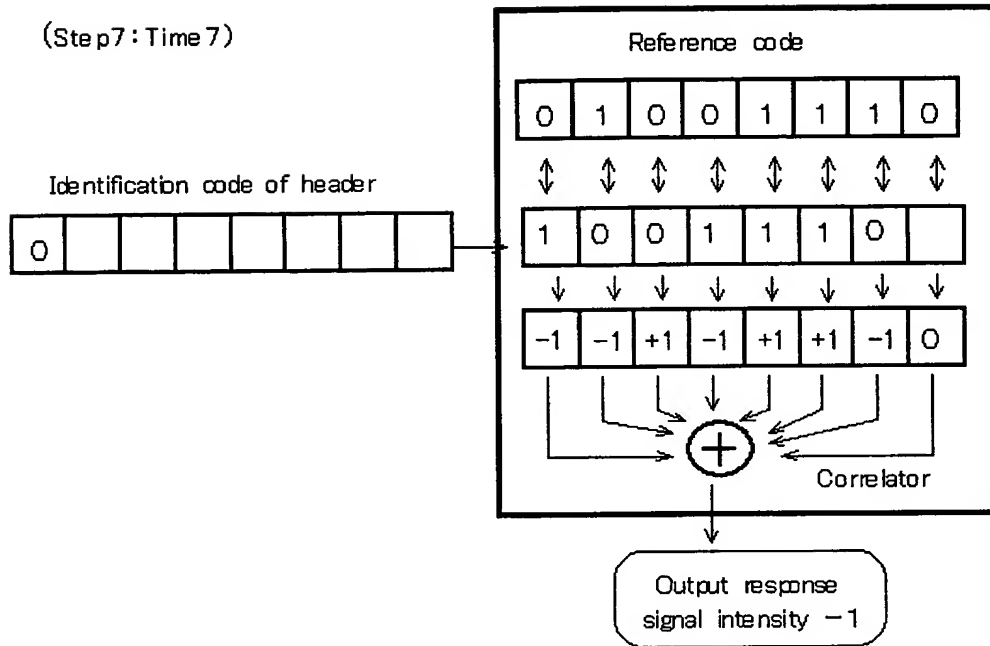


fig82

(Step7: Time 7)



(Step8: Time 8)

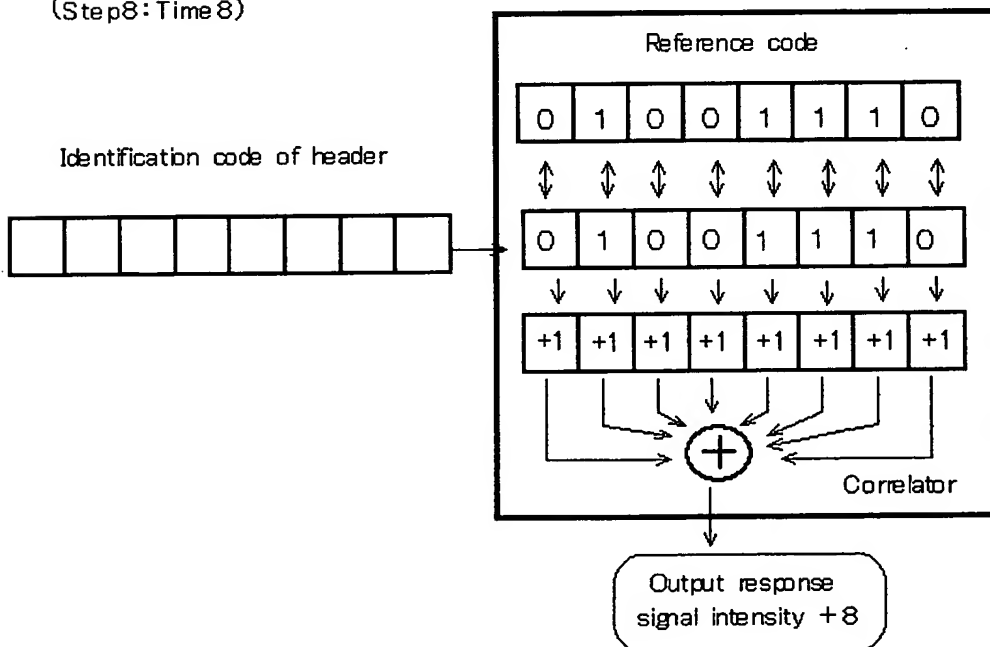


fig 83

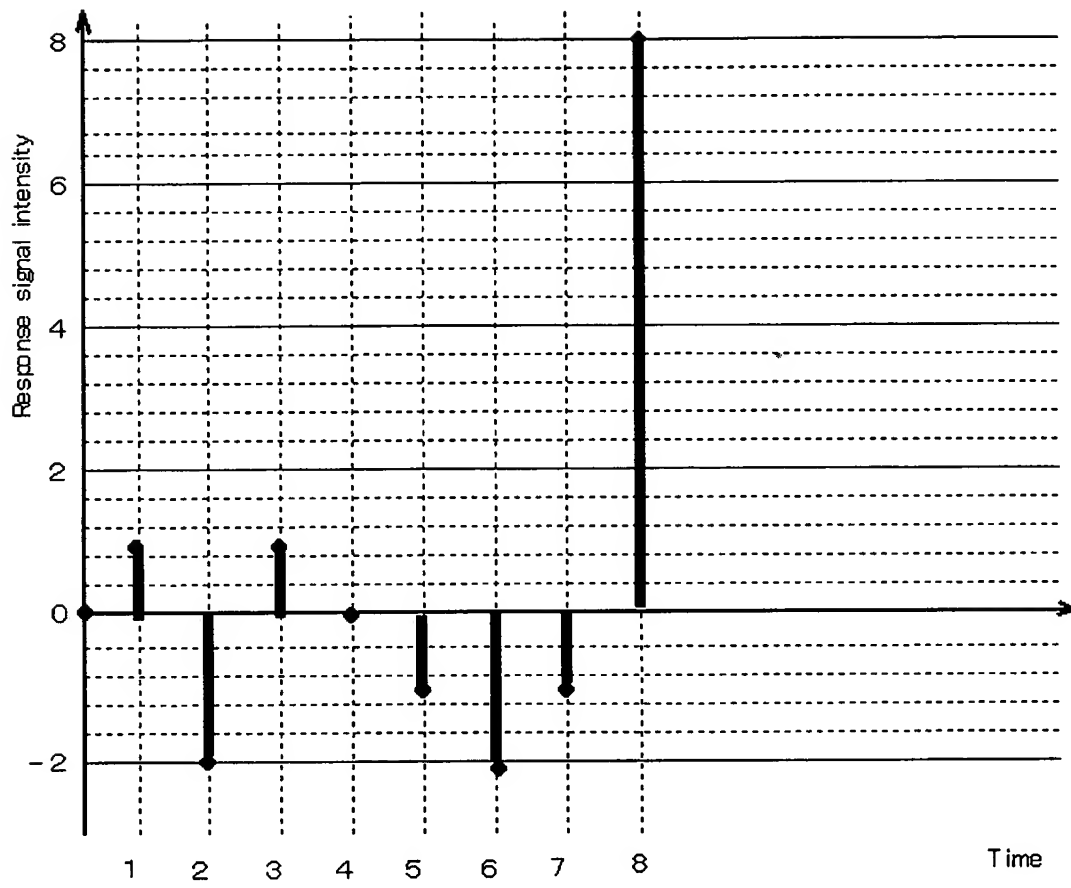


fig84

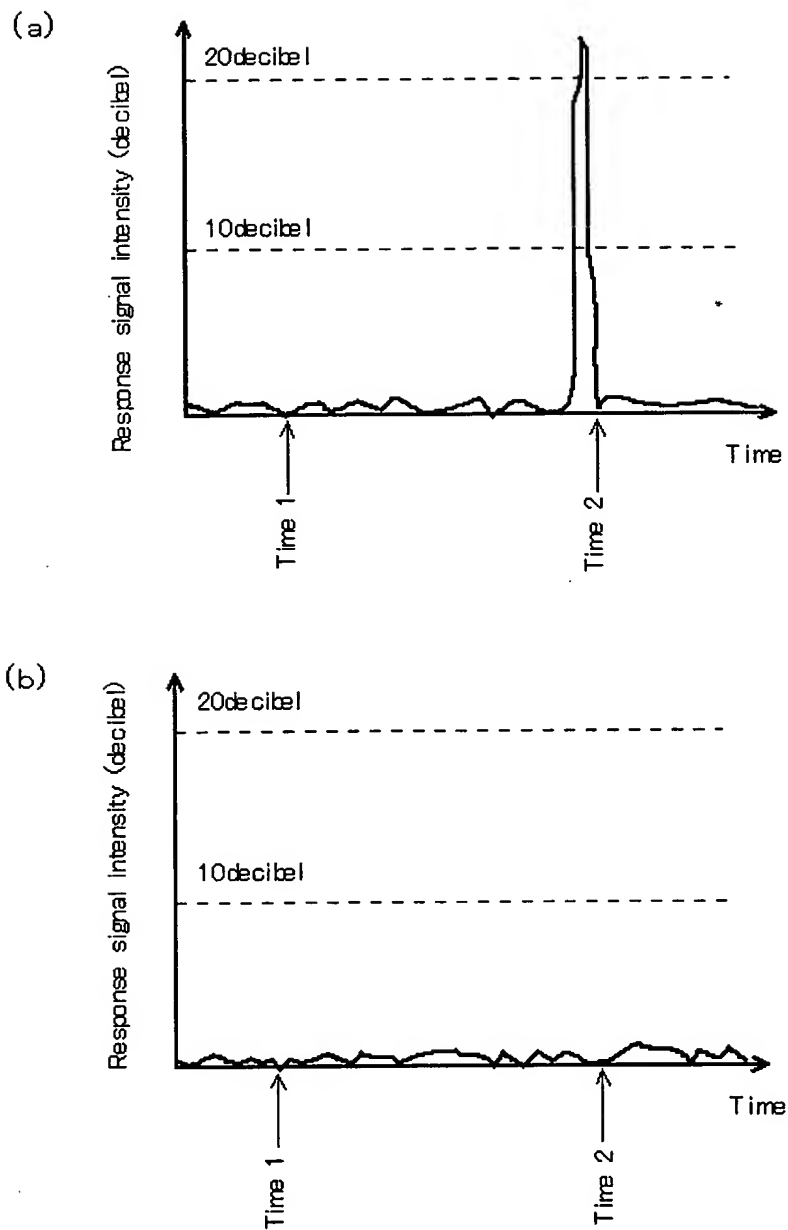


fig 85

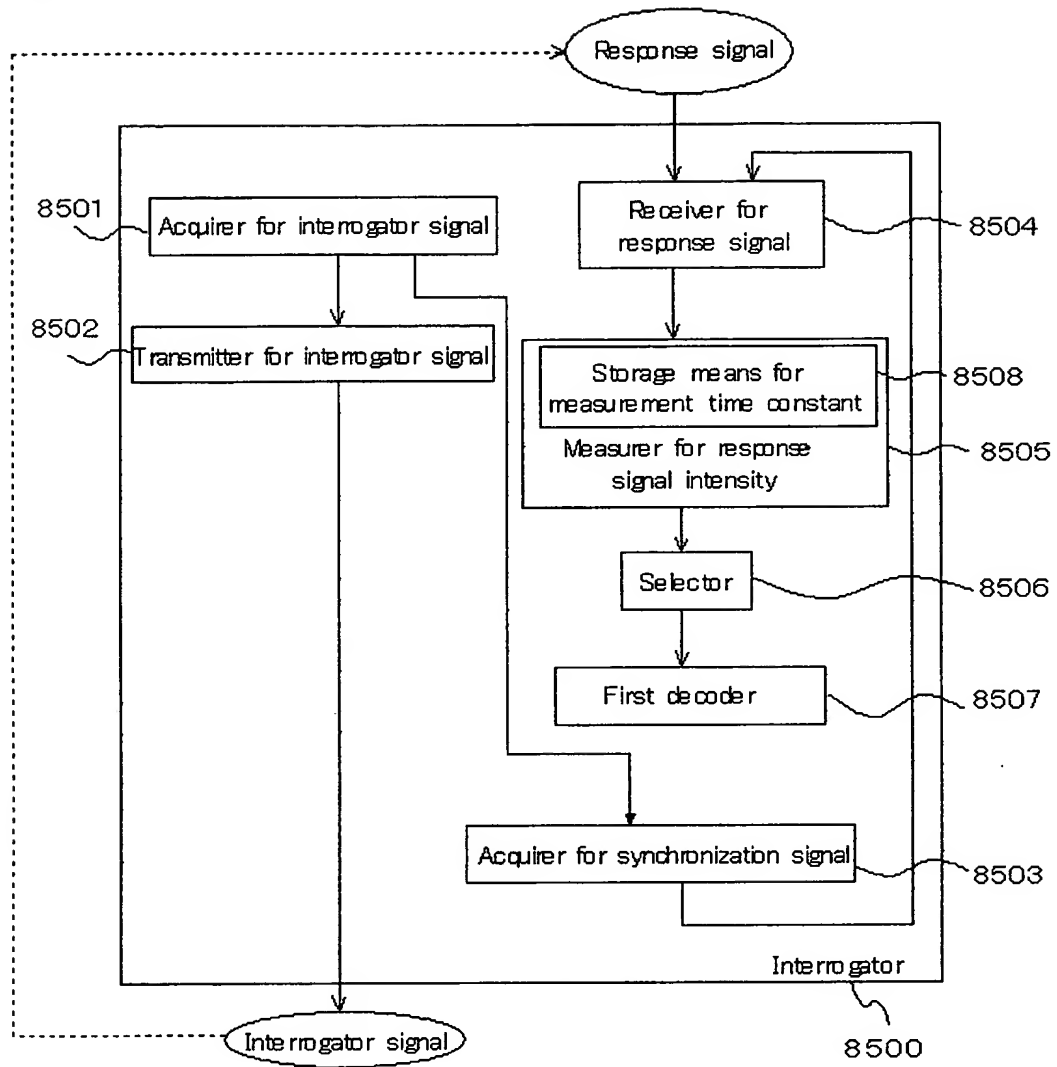


fig 86

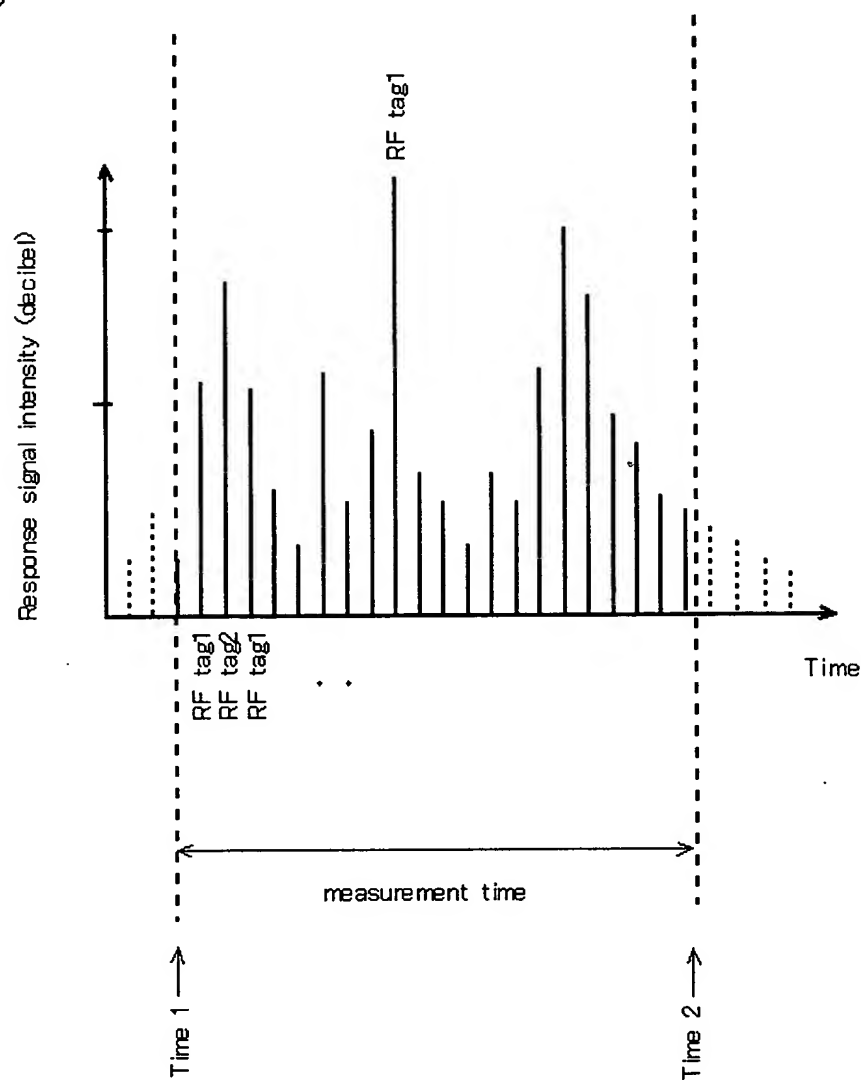


fig 87

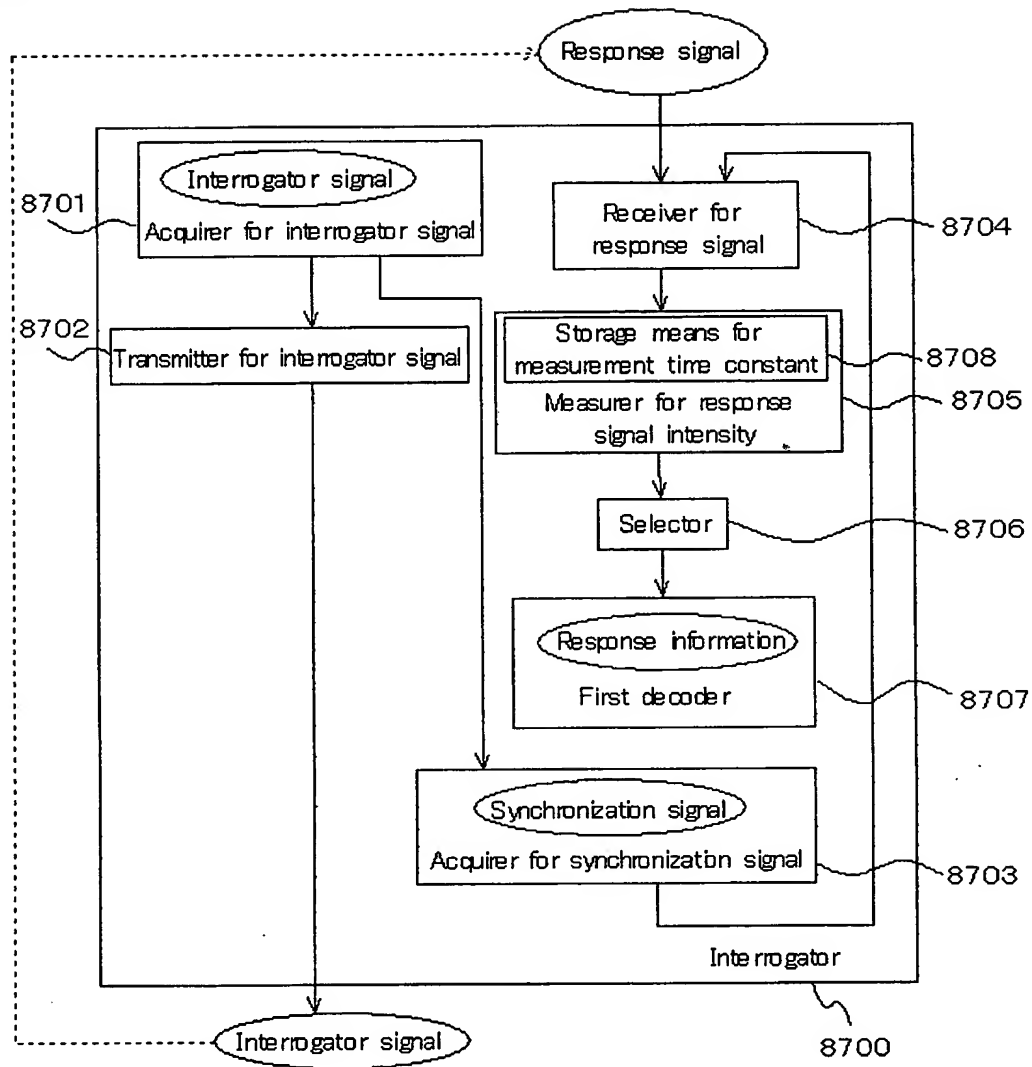


fig88

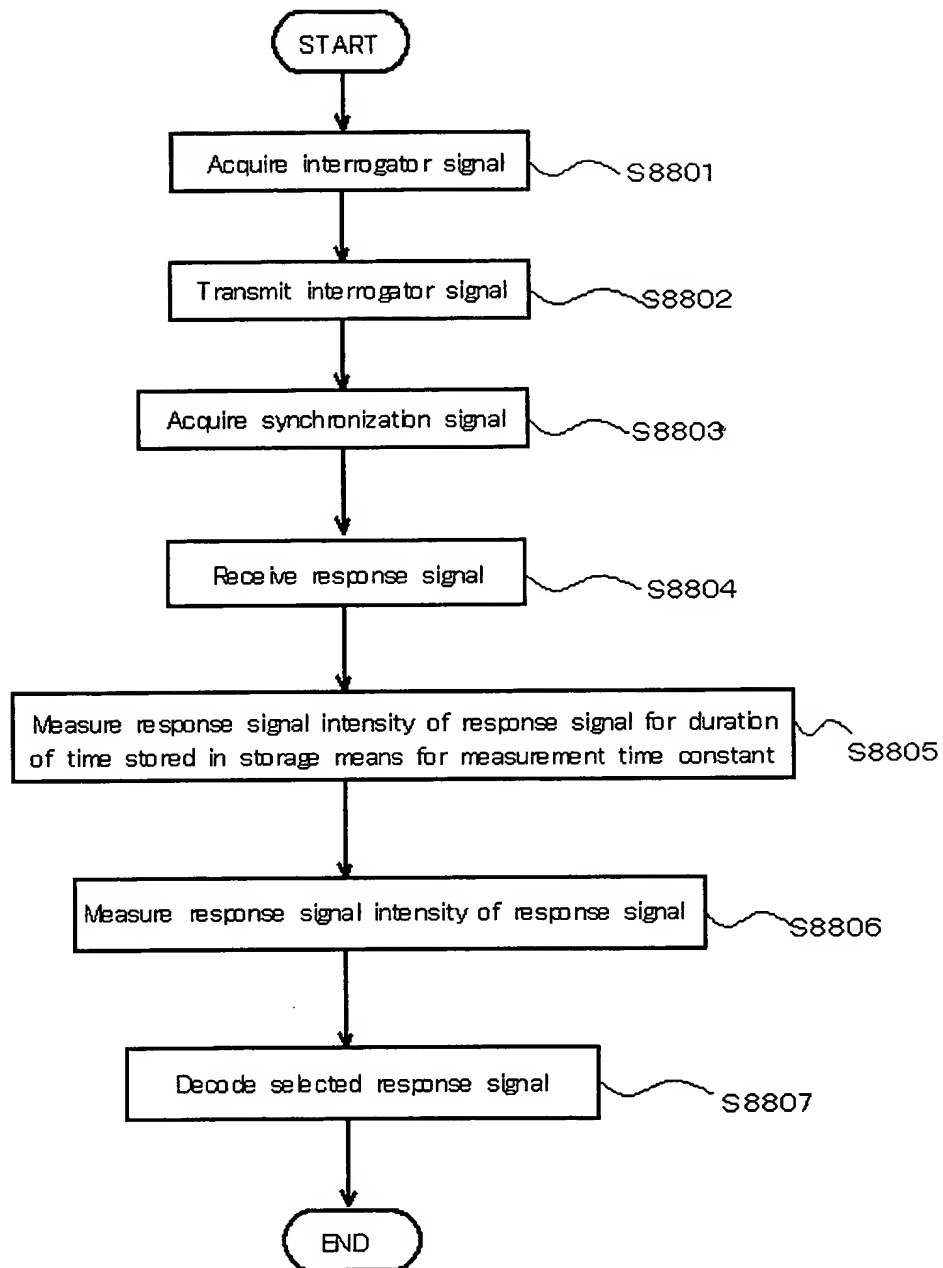


fig89

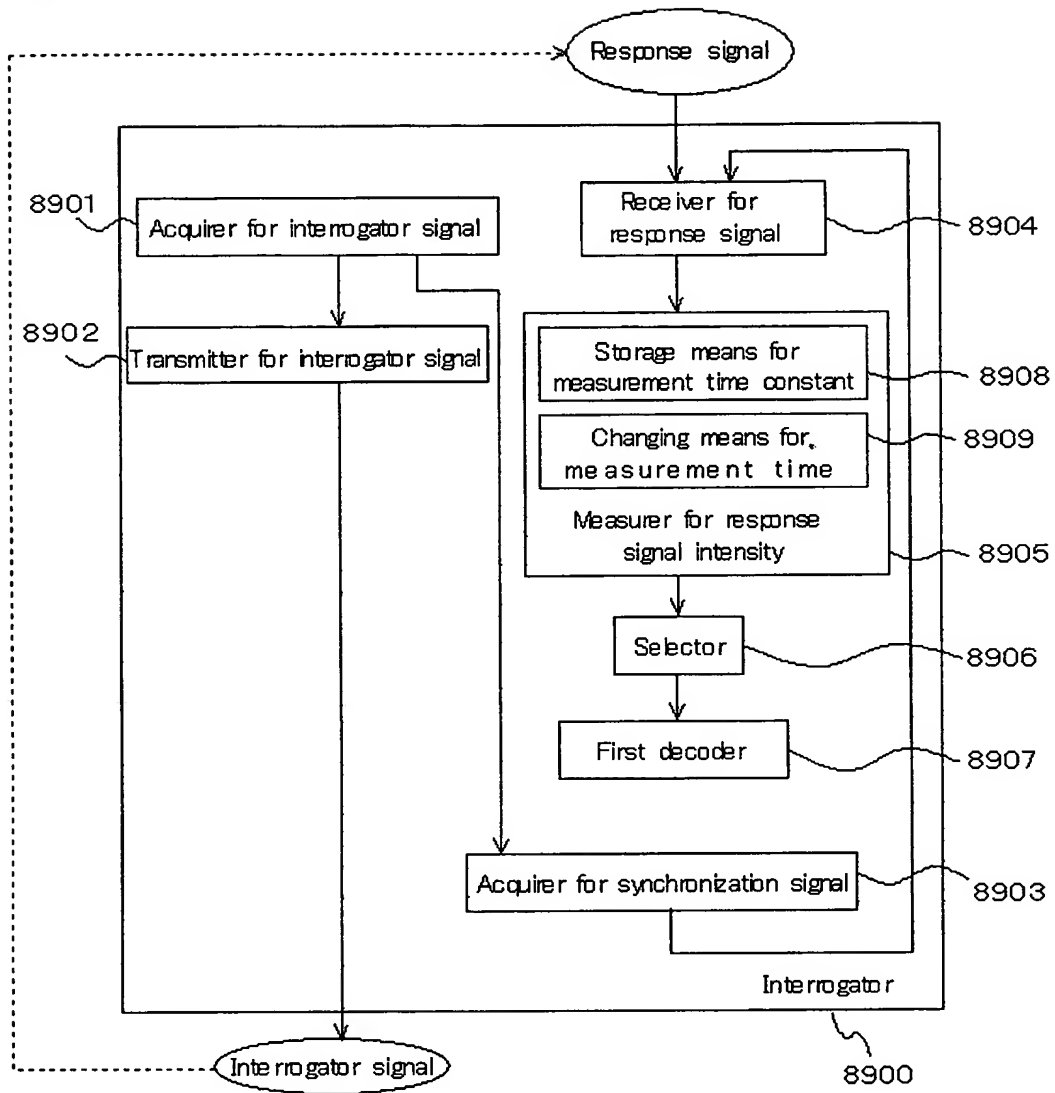


fig. 90

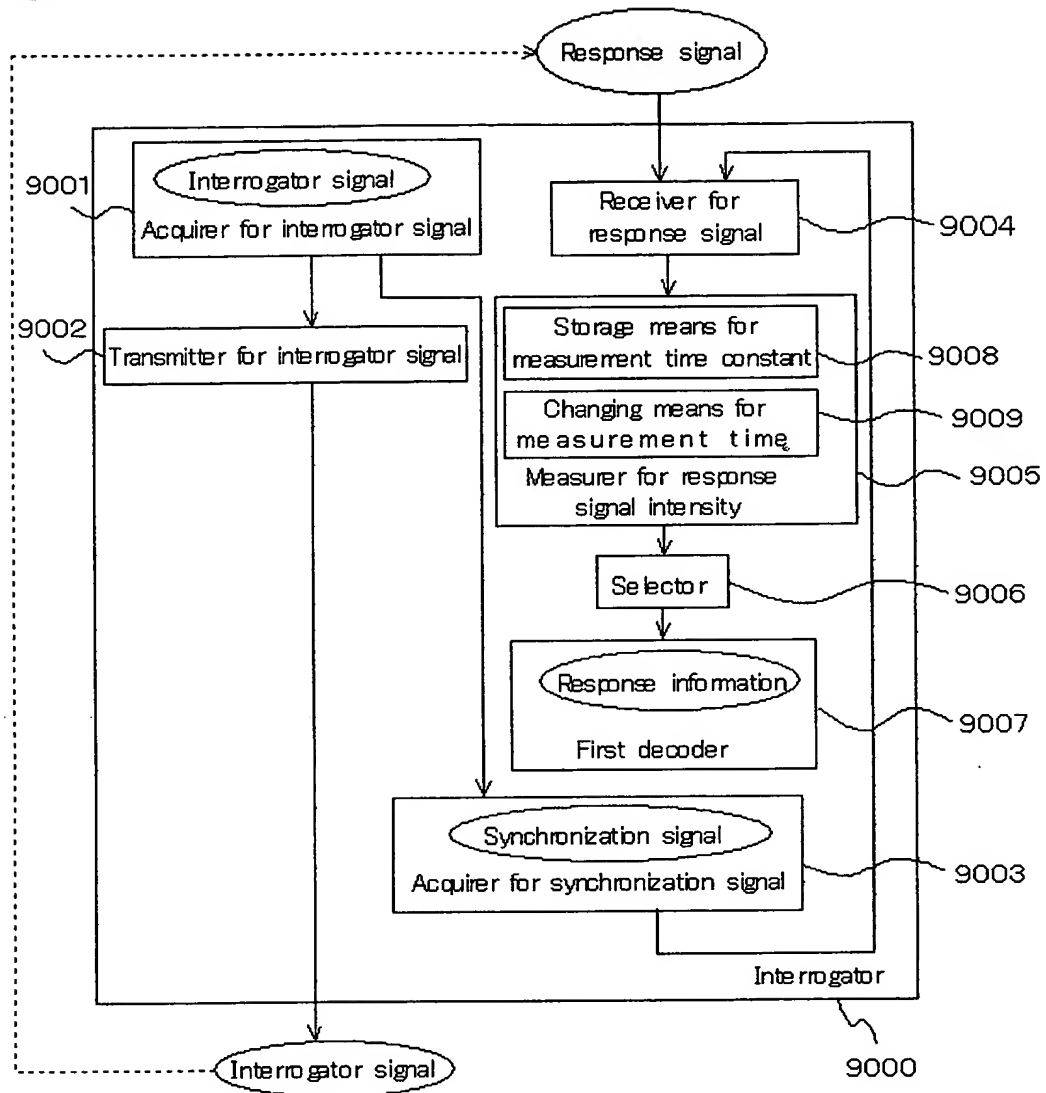


fig.91

